On Quantum-Holographic Nature of Consciousness and Acupuncture System: Psychosomatic-Cognitive Implications

Dejan Raković
Faculty of Electrical Engineering, Belgrade, Serbia
www.dejanrakovic.com
rakovicd@etf.rs

Abstract. The subject of this contribution is quantum-holographic nature of consciousness and acupuncture system, with significant psychosomatic-cognitive implications. This is of special importance because of wider application of holistic medicine in developed countries, oriented to the treatment of man as a whole and not diseases as symptoms of disorders of this wholeness, implying their macroscopic quantum origin. The focus of these quantum-holistic methods are body’s acupuncture system and consciousness, which exhibit a structure of quantum-holographic Hopfield-like associative neural network, with memory attractors as a possible quantum-holographic informational basis of psychosomatic diseases, of special importance for quantum-holistic psychosomatics and quantum-informational medicine. Wider quantum-informational implications of holistic medicine suggest quantum-holographic fractal coupling of the cellular level/ acupuncture system/consciousness/collective consciousness, which thus implies ‘downward’ biophysical mechanism for modified gene expression. Conditions for observation of quantum-coherent quantum-holographic implicate order and classically-reduced explicate order are also discussed. Our quantum-holographic investigations also predict two cognitive modes of consciousness (direct religious/creative, in quantum-coherent transitional and altered states of individual consciousness, and indirect perceptually/rationally mediated, in classically-reduced normal states of individual consciousness), with implications for religious and transpersonal phenomena too. Our quantum-holographic investigations forecast great synthesis of two cognitive modes in the framework of new quantum-holographic paradigm – where personal role becomes indispensable due to the influence and care for collective mental environment, which is fundamental question of both mental health and civil discency, i.e. of both spiritual and civil morality!

Keywords: Consciousness, Acupuncture System, Quantum-Holographic Paradigm, Quantum-Holographic Informatics, Quantum-Holistic Psychosomatics, Quantum-Informational Medicine.

Introduction

The prevailing scientific paradigm considers information processing within the central nervous system as occurring through hierarchically organized and interconnected neural networks. Hierarchical models of brain’s neural networks can be divided into [1,2]: Kohonen’s self-organizing feature mapping unidirectionally oriented multilayer neural networks [3], Hopfield’s associative or attractor massively and bidirectionally connected neural networks [4], and Haken’s synergetic classical [5] and Peruš’s neuro-quantum [6] multilayer neural networks. But, 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 [7-10], where quantum level is described by analogous mathematical formalism as Hopfield-like quantum-holographic associative neural network [1,2,7].

The mentioned analogy opens additional fundamental question as to how the quantum parallel processing level gives rise to classical parallel processing level, which is a general problem of the relationship between quantum and classical levels within the quantum decoherence theory as well [11]. Naturally, the same question is closely related to the fundamental nature of consciousness, whose indeterministic manifestations of free will [1,2,12-16] and other holistic manifestations of consciousness
like transitional states of consciousness [1,2,12-14], altered states of consciousness [17], and consciousness pervading body [18] – necessarily imply that some manifestations of consciousness must have deeper quantum origin.

Bearing in mind the quantum-coherent characteristics of the Russian-Ukrainian school of microwave resonance therapy (MRT) [19,20] (highly resonant microwave (MW) sensory response of the disordered organism, biologically efficient nonthermal MW radiation of the extremely low intensity, and neglecting MW energy losses alongside acupuncture meridians) – the acupuncture system is presumably only macroscopic quantum system in our body (while brain still seems not to be [21]). This is the reason that consciousness is related to its MW ultralow-frequency-modulated EM field of the acupuncture system, in the framework of the author’s biophysical quantum-holographic/quantum-relativistic model of consciousness [1,2,22-28] – with significant psychosomatic-cognitive implications, which will be elaborated further on.

**Consciousness and Acupuncture System: Quantum-Holographic Psychosomatic Implications**

Most of contemporary textbooks in biophysics are of the reductionist type, mainly dedicated to the molecular biophysics and methods of biomolecular characterization, to a lesser number consider processes in the cellular level, and rarely are committed to a holistic integrative level of the organism and biosphere (which includes social and environmental aspects, biometeorology, geomedicine, chronobiology, psychosomatics, consciousness, homeopathy, acupuncture, yoga, meditation, transpersonal psychology) [1,29] – although this trend is beginning to change with wider application of integrative medicine in the developed countries [30].

Namely, contemporary investigations of psychosomatic diseases imply the necessity of application of holistic methods, oriented to healing the person as a whole and not disease as a symptom of disorder of the whole, suggesting their macroscopic quantum origin [1,2,31,32]. In the focus of these quantum-holistic methods are body’s acupuncture system and consciousness – which have quantum-informational structure of quantum-holographic Hopfield associative neural network, within the Feynman propagator version of Schrödinger equation [7] – with surprisingly significant quantum-holographic psychosomatic implications.

**Acupuncture system** is an ancient Chinese concept of the energy-informational channels/meridians and points, responsible for psychosomatic health and illness [32-36]. The quantum electromagnetic (EM)/ionic basis of the acupuncture system (of ‘non-threshold’ electrical ‘gap junction’ (GJ) synapses [37,38]) is implied by resonant windows in frequency and intensity in tissue interactions with extremely weak ’non-threshold’ EM fields [39] (undetectable by nervous system of ‘threshold’ electrochemical synapses [1,2,31,32]), and successes of the Russian-Ukrainian school of microwave (MW) resonance therapy [19,20] and its quantum-coherent characteristics (highly resonant microwave sensory response of the disordered organism, biologically efficient nonthermal MW radiation of extremely low intensity and energy, and neglecting MW energy losses across acupuncture meridians), as well as successes of German school of ultralow-frequency (ULF) electropuncture [40-42] and the resonant stimulation of the acupuncture analgesia endorphin (~ 4 Hz) and serotonin and/or norepinephrine (~ 200 Hz) mechanisms [43] – which is now associated with the appearance of Quantum-informational medicine [1,31] (that might also include acupuncture-sensitive homeopathy [40-42] and other energetic/bioresonance/bioinformational methods [44]).

And as recent Peruš’s theoretical investigations show that any quantum system has formal mathematical structure of quantum-holographic Hopfield-like neural network [6,7] – then memory attractors of the acupuncture network can be treated as psychosomatic disorders representing EM MW/ULF-modulated (quantum)holistic records (which might be therefore removed only holistically, supported by an extreme efficiency of the quantum-informational therapies, that consequently erase the very information of the psychosomatic disorders, cf. Fig. 1) – which might represent biophysical basis of (acupuncture temporarily reprogrammable!) (quantum)holistic local psychosomas [1,2,12-14,22-28,31,32].
FIGURE 1. Schematic presentation of the memory attractors in the energy-state \( E_{S_k}(\phi^k) \) hypersurface of the quantum-holographic memory/propagator of the open macroscopic quantum system \( S_k \) (local cell’s protein/target biomolecular one, local acupuncture system/consciousness, or nonlocal out-of-body consciousness/collective consciousness [1, 2, 31]):

\[
G(r_2, t_2; r_1, t_1) = \sum_{i=1}^{P} \phi^k_i(r_2, t_2) \phi^{k_i*}(r_1, t_1) = \sum_{i=1}^{P} A_{k_i}(r_2, t_2) A^{k_i*}(r_1, t_1) e^{\frac{1}{\hbar} \left( a_{k_i} (r_2, t_2) - a_{k_i} (r_1, t_1) \right)}
\]

It should be pointed out that quantum decoherence presumably plays fundamental role in biological quantum-holographic neural networks, through presented energy hypersurface shape adaptation, equivalent to continuous solving of Feynman propagator version of Schrödinger equation by the open macroscopic quantum system \( S_k \) exposed to continuously changing boundary conditions (in contrast to low-temperature artificial qubit quantum processors where decoherence must be avoided until the very read-out act of quantum computation) – which implies that Nature presumably has chosen elegant room-temperature solution for biological quantum-holographic information processing, permanently fluctuating between quantum-coherent states \( k_S \) and classically-reduced states \( k_t \) of the open macroscopic quantum system \( S_k \), through nonstationary (bioresonance) interactions with out-of-body farther environment and through decoherence by bodily closer environment of biological open macroscopic quantum system \( S_k \). It should be also pointed out that the proposed quantum-holographic/quantum-decoherence model might serve as bioinformational basis of Quantum-informational medicine (QIM) related to acupuncture system/consciousness and its psychosomatic states [1, 2, 31]. So, for instance, during application of some QIM-therapy for transferring disordered acupuncture system/consciousness \( S_k \) from the psychosomatically excited state \( S_{S_k} \) into the attracting healthy ground state \( S_{S_k} \), it is necessary during the strong (bioresonance) external action \( (T_{ex}) \) to provide external energy of the QIM-source for skipping over potential barrier of the (acupuncture palpatory-painful or psychologically traumatic!) disordered state \( (\Delta E_{S_k}^k = 0) \), which after relaxation process \( (T_{rel}) \) of taking-off the excess external energy \( (\Delta E_{S_k}^k = 0) \), gives rise to condition of the completed quantum state change of the acupuncture system/consciousness, with additional decoherence time \( (\tau_D) \) and decrease of one quantum of energy in the state \( S_{S_k} \) and increase of one quantum of energy in the state \( S_{S_k} \). By multiple repeating of this process, the depth of the memory attractor \( k_2 \) is getting shallower in favour of deepening of the attracting healthy state \( k_0 \) finally giving rise to complete erasing of the psychosomatic disorder \( S_{S_k} \) and deepening of the healthy state \( S_{S_k} \), i.e. dynamic modification of the potential hypersurface of the acupuncture system/consciousness, in full analogy with the situation of learning classical Hopfield associative neural networks.
Namely, according to the *Tibetan traditional medicine*, an acupuncture procedure must be repeated every several months [45] – presumably as a consequence of *restituted* patient’s mental loads from his *mental-transpersonal-environment* of closely related relatives/enemies/deceased, that remained *non-reprogrammed* on the level of quantum-holographic collective consciousness (which might be supported by the Tibetan *pulse diagnostics* based on 20 pulses, enabling precise diagnosis of psychosomatic disorders not only of the patient himself but also of his/her/its family members and enemies).

An additional support that the acupuncture system is really related to consciousness is provided by *meridian (psycho)therapies* (with very fast removing of traumas, phobias, allergies, post-traumatic stress, and other psychosomatic disorders [46-51]) – whose simultaneous effects of *visualization* and *tapping/touching of acupuncture points* might be theoretically interpreted as a ‘*smearing*’ and associative integration of memory attractors of the psychosomatic disorders, through successive imposing new boundary conditions in the acupuncture energy-state space during visualizations of the psychosomatic problems [1,2,31,32,51] – so that *meridian (psycho)therapies* (alongside with psychosomatically healing positively-visualizing *meditation* [52] and other *deep psychotherapeutic techniques* [53]) might be also categorized into the field of *Quantum-informational medicine* [31].

Having in mind very high efficiency of meridian (psycho)therapeutic circular processes, i.e. from all relevant mentally-addressed *meta-positions* of other persons involved in the treated trauma, this implies that these interactions of the trauma-related persons have quantum-gravitational-collapse-related *transpersonal origin* via miniature ‘*wormhole*’ space-time tunnels in (highly-noninertial physically-equivalent-to strongly-gravitational) *transitional states of consciousness* of the related persons [1,2,12,13,31,32] (or ‘silver cord’ of vital energy of the astral/mental body, *extrasensory observable* in altered states between heart, stomack or throat chakras of the interconnected persons; in African-Haitian *voodoo magic* the ‘silver cord’ between the operator and the victim is intentionally created by visualization, while in Hawaiian *hooponopono* tradition the ‘silver cord’ is cut by visualization thus removing traumatic emotional relationship – which otherwise naturally exists between mother and child, and spontaneously arises by intense exchange of the vital energy between relatives, close collaborators, actual or ex-lovers, friends and enemies, and can even persist *post mortem* between the alive and dead persons [1,2,28,31,32,49,51]).

Our theoretical investigations thus imply real origin of esoteric notions of various traditions of East and West [54,55] – and according to our elaborated theoretical relationship *consciousness/acupuncture* EM-ionic quantum-holographic Hopfield-like associative neural network [1,2,12-14], esoteric notions like *astral body* (manomaya, lingasarira, manovijnana, ka, psyche, subtle body, *psychic body, soul...*) and *mental body* (vijnanamaya, suksmasarira, manas, ba, thymos, noetic body, *spiritual body, spirit...*) [54,55] might be biophysically related to *out-of-body displaced part* (connected with the body by miniature ‘*wormhole*’ tunnel of vital energy of the astral/mental body) of the ionic *acupuncture* system, and with embedded EM component of ionic microwave ULF-modulated currents, respectively.

The above quantum-holographic approach might be also generalized to highest hierarchical nonlocal level of out-of-body consciousness/collective consciousness [1,2,26,27,31,32], with religious/social implications on necessity of *transpersonal spiritual quantum-holographic removing* of all unwilling side memory attractors – which unless will cause psychosomatic diseases and interpersonal fights in this and/or further generations they are transpersonally and unconsciously transferred to, on the level of *field-related collective consciousness* [1,2,31].

This quantum-holographic approach could also apply to lower hierarchical local quantum-holographic macroscopic open cellular enzyme-gene level, with permanent quantum-conformational molecular recognition [1,2,25,31], and presumably represents a natural framework for explanation of psychosomatic diseases related to somatization of environmentally-generated memory attractor’s states of the open macroscopic quantum acupuncture system/consciousness – *quantum-holographically projected* upon lower hierarchical cellular level, thus changing the expression of genes [1,2,31,56].
(so called macroscopic ‘downward causation’, as biofeedback control of microscopic ‘upward causation’ in ontogenesis and morphogenesis, starting from the first fertilised cell division which initialises differentiation of the acupuncture system of (electrical synaptic) ‘gap-junctions’ [1,2,31,37,38]).

On this line, the quantum neural holography and quantum decoherence might play fundamental role in biological quantum-holographic neural networks [1,2,26-28,31], through adaptation of the hierarchically coupled levels of energy-state hypersurfaces of the biological open macroscopic quantum systems (collective consciousness, individual consciousness/acupuncture system, and cellular enzyme-gene level, cf. Fig. 1) (in contrast to low-temperature artificial qubit quantum processors where quantum decoherence must be avoided until the very read-out act of quantum computation!). This also implies that Nature presumably has chosen elegant room-temperature solution for biological quantum-holographic information processing, permanently fluctuating between quantum-coherent states and classically-reduced states of the biological open macroscopic quantum systems (through non-stationary interactions with out-of-body farther environment and through decoherence by bodily closer environment), so that quantum neural holography combined with quantum decoherence might be very significant element of the feedback bioinformatics. The proposed quantum-holographic approach then represents a natural framework for explanation of psychosomatic diseases related to somatization of generated memory attractor’s states of the open macroscopic quantum acupuncture system/ consciousness (created as a result of interaction with the environment) and quantum-holographically projected upon lower hierarchical cellular level, thus changing the expression of genes!

All this implies that the whole psychosomatics is a quantum hologram [1,2,26-28,31], both on the level of individual and collective consciousness, which resembles Hinduistic relationship Brahman/Atman (‘Atman is Brahman’ [57]), as the whole and its part which bears information about the whole – strongly supporting the appearing quantum-holographic paradigm [1,2,58-60].

In the above context, it might be also said that three front lines of psychosomatic medicine do exist [1,2,22,31,32]: (1) Spirituality and (circular) Meridian (psycho)therapies, with possibility of permanent erasing of mutual memory attractors on the level of collective consciousness; (2) Traditional holistic Eastern medicine and (non-circular) Deep psychotherapeutic techniques, whose efforts temporary erase memory attractors on the level of acupuncture system/individual consciousness, and prevent or alleviate their somatization, as a consequence of the indolence on the first level; (3) Modern symptomatic Western medicine, whose activities through immunology, pharmacology, biomedical diagnostics, and surgery, hinder or soothe somatic consequences of the carelessness on the first two levels.

It should be finally stressed, that necessary activities on the second and third levels, with neglect of the first level, have a consequence of further transfer of memory attractors on the level of individual and collective consciousness in this and further generations, thus accumulating quantum-holographic loads which afterwards cause not only illnesses, but also interpersonal fights, wars, and other troubles. So, it seems that personal role becomes indispensable due to the influence and care for collective mental environment, which is fundamental question of both mental health and civil decency, i.e. of both spiritual and civil morality [1,2,22,31,32]!

Consciousness and Acupuncture System: Quantum-Holographic Cognitive Implications

In the above quantum-holographic context, the association of individual consciousness to manifestly-macroscopic-quantum acupuncture system, and application of theoretical methods of associative neural networks and quantum neural holography and quantum decoherence theory, imply two cognitive modes of consciousness, according to the coupling strength consciousness-body-environment [1,2,31,34,35]: (1) weakly-coupled quantum-coherent direct one (in out-of-body religious/ creative transitional and altered states of consciousness, like prayer, meditation, creative dozes, lucid dreams...), and (2) strongly-coupled classically-reduced indirect one (in bodily perceptively/rationally mediated normal states of consciousness, like sensory perception, logical and scientific thinking...) – with conditions for mutual transformations – and significant spiritual and epistemological implications
related to re-gained strong coupling of quantum-holographic contents of consciousness with bodily-environment, classically-reducing directly obtained quantum-coherent informational content.

It should be pointed out that fundamentally-theoretical reasons for out-of-body displacement of consciousness lay in necessity that consciousness must have, at least in (quantum-coherent) altered/transitional states, sufficiently isolated relevant macroscopic quantum degrees of freedom [1,2,12-14,22-28] – in order to have indeterministic characteristics of free will – which is otherwise not possible in strong body’s environment which causes quick quantum decoherence of consciousness into (classically-reduced) normal state [21].

So, it seems that science is closing the circle, by re-discovering two cognitive modes of consciousness and at the same time by imposing its own epistemological limitations – as it was preserved for millennia in shamanistic tribal traditions [61,62], or as it was concisely described by Patanjali in Yoga Sutras, pointing out that mystical experience (samadhi) is ‘filled with truth’ and that ‘it goes beyond inference and scriptures’ [63], or as this difference between faith and knowledge was formulated at the beginning of the last century by Berdyaev in his Philosophy of Freedom as the difference of two modes of cognition, prayer-mediated 'comprehension of the affairs invisible' and rationally-mediated 'comprehension of the affairs visible' [64]!

This also explains in principle non-adequate informational rationalization of any direct quantum-holographic spiritual/religious mystical experience (as a general problem of the quantum theory of measurement, of reduction of the implicate order of quantum-coherent (quantum-holographic) superpositions into the explicate order of measured projective quantum and mixed classical states [1,2,26-28]). 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 [1,2,26-28]: acupuncture system/nervous system threshold filter (which requires ‘emotional colouring’ of the solving problem) and frontolimbic-amplification priority filter (which requires ‘emotional-thinking priority’ of the solving problem). It should be pointed out that (practically) non-threshold potential of the acupuncture electrical GJ-synapses [37,38] makes body’s acupuncture system extremely sensitive quantum sensor [1,2], which can resonantly 'detect' even ultraweak EM fields [39] – with radiesthes-diagnostic, noncontrolable-patogenic, or quantum-therapeutic psychosomatic effects [65].

The mentioned quantum-holographic context implies quantum-holographic fractal coupling of various hierarchical levels in Nature:

- **local quantum-holographic coupling** of bodily acupuncture system and its numerous projection zones (according to contemporary Šu Jok therapy [66]);
- **local quantum-holographic coupling** of thought-emotional contents of individual consciousness and cellular level (according to experiments of language-influence on the genes expression [67,68]);
- **transpersonally-addressed classically-reduced quantum-holographic coupling** of emotionally related consciousness’ of relatives/enemies/deceased within the network of collective consciousness (according to pulse diagnostics of Tibetan traditional medicine [45]);
- **transpersonally-addressed classically-reduced quantum-holographic coupling** of individual and collective consciousness in miraculous deep creativities (Tesla and Mozart as examples [24,69]);
- **transpersonally-addressed classically-reduced quantum-holographic coupling** of individual and collective consciousness in spiritual revelations (Moses as example, with preferences of collective and individual history coded within The Old Testament, according to discovery of ‘Bible Code’ [70-72]);
- **fractal-informational coupling** of Golden Mean based codes of periodic system of elements, genetic code, microtubules, biological water, yin-yang I Ching, and individual consciousness (according to several contemporary investigations [10,73]).
Then, transpersonal interactions [74-79] might be interpreted [1,2,12-14] by collapse-like consciousness-channeled quantum-gravitational tunneling of operator’s individual consciousness – mentally addressed on the target’s content of collective consciousness in operator’s transitional states of consciousness (short-lasting highly-noninertial strong-gravitation-equivalent – according to Einstein’s principle of equivalence – being presumably the physical basis of von Neumann’s projection postulate in quantum measurement-like situations on micro-quantum scale too!) – thus intentionally channeling composite state of the ‘field’ of target-under-influence-of-operator part of collective consciousness, \( |\Phi\rangle_S \rightarrow |\Phi\rangle_S \), and automatically influencing complementary ‘particle’ output \( |\Psi\rangle_E \rightarrow |\Psi\rangle_E \) in quantum-gravitationally-induced and consciousness-channeled collapse

\[
( |\Phi\rangle_S |\Psi\rangle_E = \sum c_i |\Phi_i\rangle_S |\Psi_i\rangle_E \rightarrow |\Phi\rangle_S |\Psi\rangle_E ).
\]

It should be also pointed out, that in the context of necessary conditions for decoherence [80,81], defining of open quantum system and 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!) [82], simultaneously creating conditions for the process of decoherence in the context of existing relative borderline:

\[
|\Phi\rangle_S |\Psi\rangle_E \equiv |\text{(partial)individual/collective consciousness}\rangle_S |\text{(complementary)environment}\rangle_E.
\]

This is fully in accordance with the idea of collective consciousness as a possible ontological property of the physical field itself [1,2,12-14,22-24,26-28], with different micro-quantum and macro-quantum (both non-biological and biological, real and virtual) excitations. Then, as cosmic collective consciousness \( |\Phi\rangle_S \sim \prod_i |\phi_i\rangle_{S_i} = \sum c_i |\Phi_i\rangle_S \), coincident with the ‘field’ of Universe, has its complementary ‘particle’ cosmic environment \( |\Psi\rangle_E = \sum c_i |\Psi_i\rangle_E \), their strong-interaction-coupling affects decoherence of the ‘field’ of cosmic collective consciousness into stationary classically-reduced (observing) stochastic state, \( \rho_S = \sum c_i |c_i\rangle_{S_i} \langle c_i|_S \), with probabilities \( |c_i|^2 \) of realizations of corresponding classically-decoherent states of cosmic collective consciousness; on the other hand, cosmic composite quantum state \( (|\Phi\rangle_S |\Psi\rangle_E) \) evolves without collapse (due to absence of the complementary outside-cosmic environment!), which implies that Universe as a whole is quantum hologram subject to deterministic Schrödinger evolution [1,2,26-28]!

However, prayer-induced hypothetical macroscopic vacuum non-loaded spiritual excitations (whose exciting by prayers arises associations on ‘Holy Grace’ as in-deterministic intervention in otherwise deterministic evolution of the quantum-holographic cosmic (and embedded human) History, which thus provides essentially new non-Schrödinger boundary conditions!) might modify cosmic collective consciousness \( (|\Phi\rangle_S \sim \prod_i |\phi_i\rangle_{S_i} ) \) and thus cosmic composite quantum state

\[
( |\Phi\rangle_S |\Psi\rangle_E ), \text{ i.e. classically-reduced stochastic state of cosmic collective consciousness (} \rho_S = \sum c_i |c_i\rangle \langle c_i|_S \text{), so implying possibility of prayer-optimized [1,2,26-28] (most probable and energetically most convenient) preferences of cosmic collective consciousness (and conversely, on modification of the cosmic-consciousness-observable classically-reduced stochastic state of the complementary "particle" cosmic environment (} \rho_E = \sum c_i |c_i|^2 |\Psi_i\rangle \langle \Psi_i| ) \), implying possibility of
From the above there appears that classically-reduced level (of quantum system/consciousness \( \rho_S(t) \) or environment \( \rho_E(t) \)), is permanently emerging from and dissolving into quantum-holographic level (\( |\Phi(t)\rangle_S |\Psi(t)\rangle_E \)) (cf. Fig. 1), and this permanent pulsating is going on extremely fast, with observing Bohm’s explicate order of classically-reduced mixtures (of quantum system/consciousness \( \rho_S(t) \) or environment \( \rho_E(t) \)) of quantum-holographic reality via measuring devices/senses. On the other hand, non-stationary quantum-holographic reality of Bohm’s implicate order

\[
|\Phi(t)\rangle_S |\Psi(t)\rangle_E \sim \prod_k |\phi^k(t)\rangle_{S_k} |\Psi(t)\rangle_E = \sum_i c_i |\Phi_i(t)\rangle_S |\Psi_i(t)\rangle_E
\]

might be observed exclusively in non-stationary quantum-coherent superpositions of states, characteristic of quantum-holographic creative-religious altered and transitional states of consciousness (individual \( |\phi^k(t)\rangle_{S_k} \) or collective \( |\Phi(t)\rangle_S = \sum_i c_i |\Phi_i(t)\rangle_S \)). This viewpoint is close to experiences of many shamanistic tribal traditions, which consider that genuine (quantum-holographic!) reality is represented by dreams [83], while (classically-reduced!) awake state is lie/illusion (maya, as it is argued in Eastern traditions [54,57,63])!

In the same context, necessity of direct quantum-holographic coupling of individual and cosmic collective consciousness in observing implicate order really requires weak out-of-body quantum-communication coupling consciousness-environment, i.e. previous reprogramming of all psychosomatic loads (cleansing of possesive or hedonistic emotional-mental sin/karmic connections with the world – which as loading ‘mental addresses’ would give rise to quantum projections of mentally/channeled tunneled consciousness on corresponding out-of-body environment, and thus to classically-reduced out-of-body extrasensory observing of mentally-addressed environment!) – and so the efforts of mystics of all traditions to clean consciousness/soul through spiritual practice (prayer, meditation) and thus to reach their final eschatological goal (Kingdom of God, nirvana), i.e. post-mortem salvation (of the sin-free/karmic-free non-bounded soul) [54,55] appear reasonable!

Our investigations are on the line of the again arosen scientific interest for investigation of the phenomenon of consciousness in the past decades – with forecasting great synthesis of two cognitive modes, rationally-scientific (classically-reduced, in normal states of consciousness) and creative-religious (quantum-coherent, in altered and transitional states of consciousness) in the framework of new quantum-holographic paradigm – where personal role becomes indispensable due to the influence and care for collective mental environment, which is fundamental question of both mental health and civil discency, i.e. of both spiritual and civil morality!

**Conclusion**

In this contribution, quantum-holographic nature of consciousness and acupuncture system is considered, with significant psychosomatic-cognitive implications. This is of special importance as contemporary research of psychosomatic diseases indicates the necessity of application of holistic methods, oriented to the treatment of man as a whole and not diseases as symptoms of disorders of this wholeness, implying their macroscopic quantum origin, with memory attractors as a possible quantum-holographic informational basis of psychosomatic diseases, as a ‘downward’ mechanism for modified gene expression. Wider quantum-informational implications of holistic medicine suggest quantum-holographic fractal coupling of the cellular level/acupuncture system/consciousness/collective consciousness which resembles Hindustic relationship Brahman/Atman (‘Atman is Brahman’), as wholeness and its part which bears information about wholeness, strongly supporting the quantum-holographic paradigm. Our quantum-holographic investigations are on the line of the again arosen
scientific interest for investigation of the phenomenon of consciousness, forecasting great synthesis of two predicted cognitive modes, rationally-scientific (classically-reduced, in normal states of consciousness) and creative-religious (quantum-coherent, in altered and transitional states of consciousness) in the framework of new quantum-holographic paradigm – where personal role becomes indispensable due to the influence and care for collective mental environment, which is fundamental question of both mental health and civil discency, i.e. of both spiritual and civil morality!

References

44. Contemporary critical review of technologies in the wider field of quantum-informational medicine could be found on the websites: Inergetix (www.energy-medicine.info) and Energetic Medicine Research (www.energetic-medicine.net).
46. Callahan RJ, Callahan J. Thought Field Therapy and Trauma: Treatment and Theory. Indian Wells, CA; 1996.
69. Holmes F. The Life of Mozart Including his Correspondence. Chapman & Hall; 1878, 211-213.


