

**2nd Int Congress Tesla 2017: Disruptive Innovation, 2-4 June 2017, Belgrade,
Workshop 1: Tesla's Inspired Holistic Questions of Creativity & Education.**

TESLA'S INSPIRED HOLISTIC QUESTIONS OF CREATIVITY & EDUCATION

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***When we start to study 'non-physical' phenomena,
we will progress more in ten years than we have for centuries.***
Nikola Tesla

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Workshop 3: ReMaking Tesla - Practices that Make a Genius.**

REMAKING TESLA – PRACTICES THAT MAKE A GENIUS

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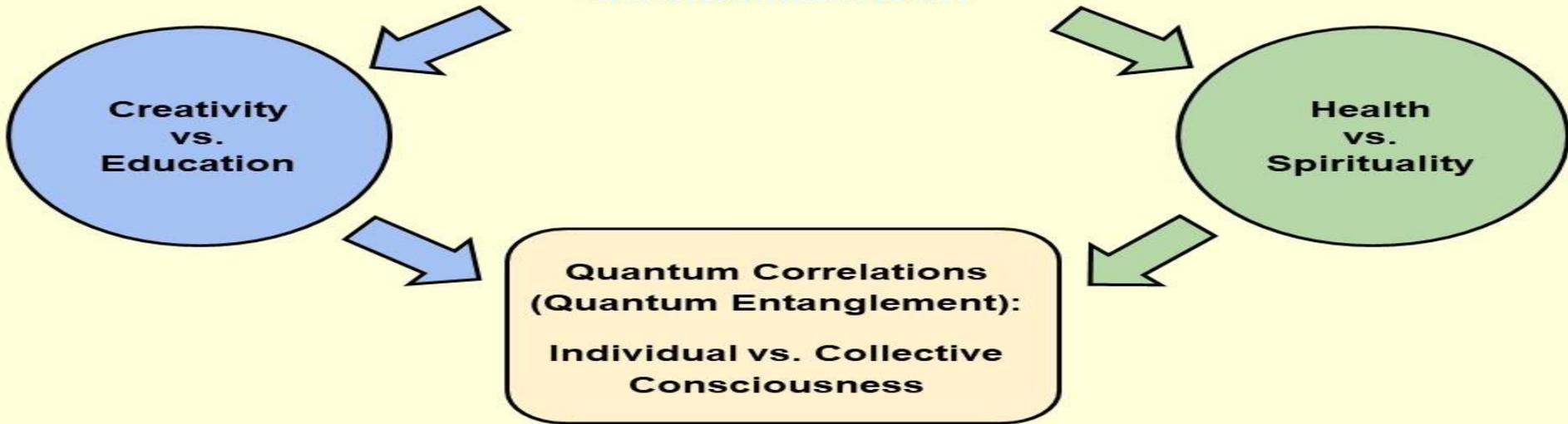
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Tesla's Inspired Holistic Ideas

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

(a) 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*** (left-hand side of image & formula above, with previous mental increase of focused weight contribution c_j & subsequent (practically non-stochastic) classically-reduced selection of this dominant weight contribution c_j);

(b) 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*** (right-hand side of image & formula above), with previously systemic mental decreasing of almost all weight contributions c_i & subsequent (practically non-stochastic) classically-reduced selection of the remaining weight contribution c_j (related to mentally-embedded address on the founder of the corresponding mystical tradition).

OUTLINE I. TWO MODES OF KNOWLEDGE

**(i) WEAKLY-COUPLED QUANTUM-COHERENT
SPIRITUAL / CREATIVE DIRECT ONE**

**(ii) STRONGLY-COUPLED CLASSICALLY-REDUCED
PERCEPTIVELY / RATIONALLY INDIRECT ONE**

OUTLINE I. Our research also suggests ***two modes of knowledge*** (as known in numerous traditions!), according to coupling strength consciousness-body-environment [1-4]: ***(i) weakly-coupled quantum-coherent spiritual / creative direct one*** (in altered and transitional states of consciousness); and ***(ii) strongly-coupled classically-reduced perceptively / rationally indirect one*** (in normal states of consciousness) – with significant epistemological / spiritual implications. And can help us realize that all ***partial rationalizations*** (classically-reduced mappings!) are ***only approximations of fundamental holistic reality*** (quantum-holographic territory!) – and that all *divisions are tragic misunderstanding* of spiritually immature (historical) epoch of civilization (as map is not the territory!).

All our considerations include ***three essential comparative holistic aspects***: ***(i) utility*** (of transpersonal spiritual practices in healing or salvation of souls); ***(ii) epistemology*** (of mystical and rational modes of consciousness); and ***(iii) phenomenology*** (of transpersonal spiritual experiences); cf. Notes 1 – 6.

This is in line with ***reawakened interest in scientific study of consciousness***, with indications of appearance of *grand synthesis of two modes of knowledge* in the framework of ***extended quantum-holographic paradigm*** – where the ***role of each individual becomes indispensable*** due to influence and concern for ***collective mental environment***, which is *fundamental question* of both spiritual and civic morality. Hence everything considered indicates the *full significance of holistic education & behaviour* – demonstrating necessity of ***redefining global educational / informational / political goals***, with re-orientation towards ***holistic gentle actions for global solutions of the world risk society***.

Note 1. According to our previous proposal, **transpersonal interactions** (as a **model of transpersonal nature of creativity**, i.e. combination of two modes of cognition: **Tesla and Mozart**, as case studies!) might be interpreted by **collapse-related** consciousness-channeled quantum-gravitational tunneling of individual consciousness – mentally addressed on the target’s content of the **collective consciousness** in (short-lasting) **transitional states of consciousness** – thus **intentionally channeling state** of individual consciousness, $|\Phi\rangle_S \rightarrow |\Phi_j\rangle_S$, and automatically influencing the complement collective consciousness output $|\Psi\rangle_E \rightarrow |\Psi_j\rangle_E$ in quantum-gravitationally-induced & consciousness-channeled collapse:

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

Note 2. The above relation might be quantum-informationally interpreted as **two-step decoherence process: (1) quantum entanglement of memory attractors** of interacting individual consciousness $|\Phi_i\rangle_S$ & collective consciousness $|\Psi_i\rangle_E$ (correlated via **(consciousness-based) resonant recognition / interaction** of associatively-related attractors of individual & collective consciousness), and **(2) body-induced collapse** with quasi-stochastic **mentally enhanced $|c_j| \approx 1$ contribution** by focusing on corresponding j -th memory attractor in normal state of individual consciousness [with notification of ‘gauge quantum field theory & quantum gravity correspondence (in string theory)’ of any quantum entangled system (i.e. Einstein-Podolsky-Rosen correlated quantum pair) and corresponding connected miniature (non-traversable) ‘wormhole’ (i.e. quantum-gravitational Einstein-Rosen bridge); (its possible traversability in cosmological conditions has been discussed, while in transpersonal conditions it is phenomenologically widely used in healing practices.)].

Note 3. It should be pointed out that **direct quantum-holographic coupling** of individual & cosmic collective consciousness **needs weak out-of-body consciousness-environment coupling**, i.e. **reprogramming of all psychosomatic loads** – which as **loading ‘mental addresses’** would otherwise give rise to **quantum projections** of mentally-channelled tunnelled consciousness **on the out-of-body environment**, and **classically-reduced out-of-body extrasensory observing of the mentally-addressed environment** (as a kind of **loading / or creative transpersonal communication**).

Note 4. Hence, **efforts of mystics** of all traditions to **clean consciousness / soul** through spiritual practices (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*) appear reasonable!

Note 5. However, **returning of mystics** into normal state of consciousness *regain strong coupling of the directly received quantum-holographic contents of cosmic consciousness with the bodily environment*, so *classically-reducing* the obtained quantum-coherent information (in quantum-holographic superposition of contents of cosmic collective consciousness) – and thus achieving only **partial epistemological goal** of *classically-reduced approximate rationalization of quantum-holographic fundamental holistic reality*.

Note 6. In this context, **transpersonally-extended esoteric concepts** of spiritual traditions of East & West could be biophysically accounted within our plausibly generalized **quantum-holographic / quantum-gravitational framework**:

(i) astral body (*manomaya, linga-sarira, manovijnana, ka, psyche, nephesh, nafs, subtle body, psychic body, soul...*) **vs. ionic component of EM-ionic macro-quantum body's energy-informational system displaceable out-of-body** (connected with the body by miniature 'wormhole' space-time tunnel, generated in highly-non-inertial transitional states of consciousness, as reported in extra-sensory near-death experiences);

(ii) mental body (*vijnanamaya, suksmasarira, manas, ba, thymos, ruach, ruh, noetic body, spiritual body, mind...*) **vs. EM component of EM-ionic macro-quantum body's energy-informational system displaceable out-of-body** (embedded within ionic component of body's energy-informational system);

(iii) distributed centers of consciousness (*chakras, acu-points, sephiroths, holy discs...*) **vs. EM-ionic condensates of EM-ionic macro-quantum body's energy-informational system displaceable out-of-body**; and

(iv) vital energy (*chi / qi / ki, prana / akasha, mana, ka, pneuma / ether / natura medica / anima mundi, yesod, baraka, uncreated light / Holy Spirit, Innate Intelligence, bioenergy / biofield...*) **vs. EM-ionic-exotic condensates detectable within EM-ionic macro-quantum body's energy-informational channels displaceable out-of-body & non-detectable outside them** (with possible generalization from EM field to unified field, in line with broader traditional meaning of vital energy, as all-pervasive cosmic quintessence).

OUTLINE III. THREE ASPECTS OF BODY'S ENERGY- INFORMATIONAL SYSTEM, CONSCIOUSNESS & VITAL ENERGY

**(i) QUASI-CLASSICAL IONIC ASPECT
OF BODY'S ENERGY-INFORMATIONAL SYSTEM**

**(ii) QUANTUM-INFORMATIONAL ELECTROMAGNETIC ASPECT
OF BODY'S ENERGY-INFORMATIONAL SYSTEM**

**(iii) TRANSPERSONAL EXOTIC ASPECT
OF ENERGY-INFORMATIONAL COMMUNICATIONS**

OUTLINE III. In further, **three aspects of body's energy-informational system, consciousness & vital energy** should be pointed out [2-4]: **(i) quasi-classical ionic aspect of body's energy-informational system** (suggested by research of the non-threshold "gap junction" electrical synapses, which have shown an order of magnitude increased concentration at acu-points, that is consistent with a much lower electrical resistance of acu-points compared to the surrounding tissue, as well as a significantly higher absorption of ions in these points, cf. Figures 1 – 3); **(ii) quantum-informational electromagnetic aspect of body's energy-informational system** (indicated by quantum-coherent characteristics of Russian-Ukrainian school of microwave resonance therapy, and discovery that any quantum system has formal mathematical structure of Hopfield quantum-holographic associative neural network; it is also pointed out that body's energy-informational system is at least psychosomatically related to consciousness, as supported by very effective meridian (psycho / energy) therapies with successive setting new boundary conditions in body's energy-informational state during emotionally-involved visualizations of psychosomatic problems, cf. Figure 4); and **(iii) transpersonal exotic aspect of energy-informational communications** (known in all traditions, and now widely used in transpersonal energy therapies (such as Qigong, Reiki, Pranic healing...) – through established and stabilized energy-informational channels of vital energy (qi, ki, prana...) – pointing to a deeper exotic space-time nature of these energy-informational channels of vital energy (i.e. connection with exotic quantum vacuum fluctuations, necessary for anti-gravitational stabilization of the space-time channels)).

So, it seems that **joint research** on crossroad of **psychosomatic integrative medicine & quantum informatics** may become **fruitful** in spreading frontiers of the existing scientific paradigm (cf. Notes 1 – 15).

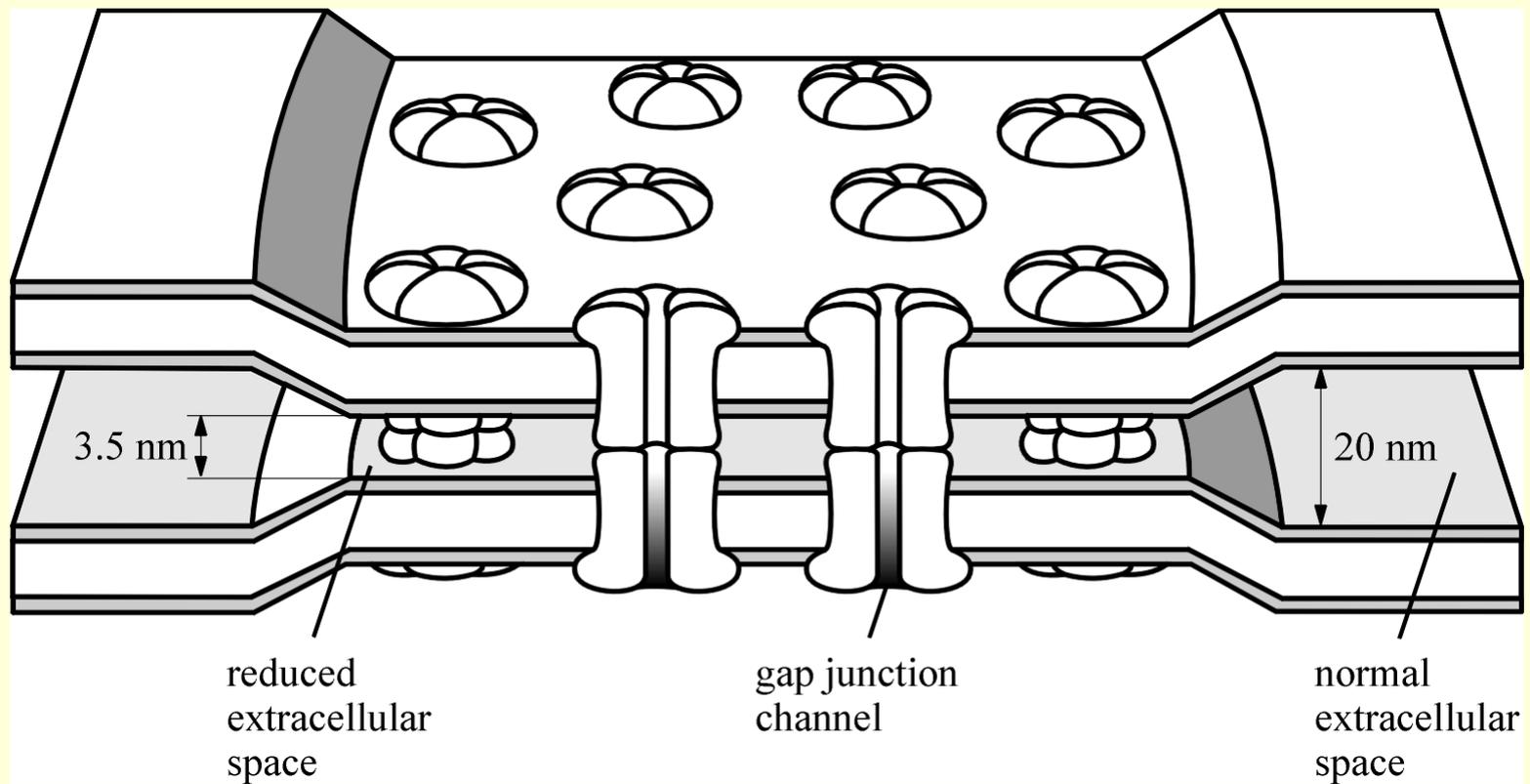
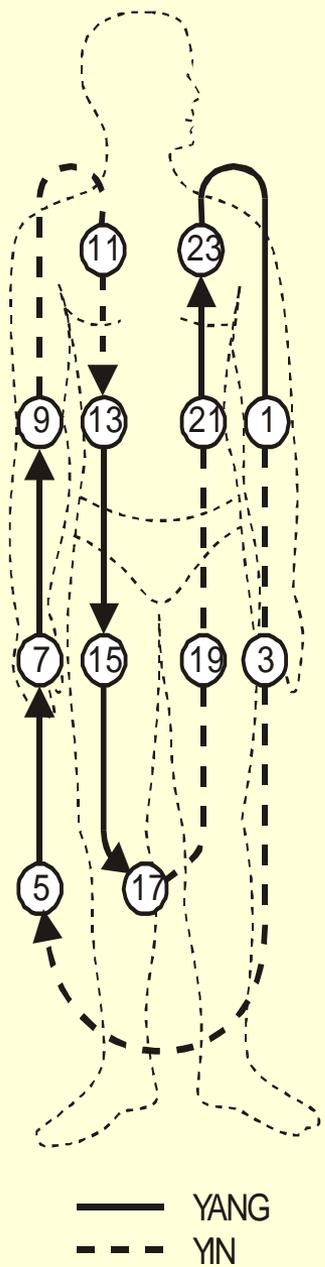
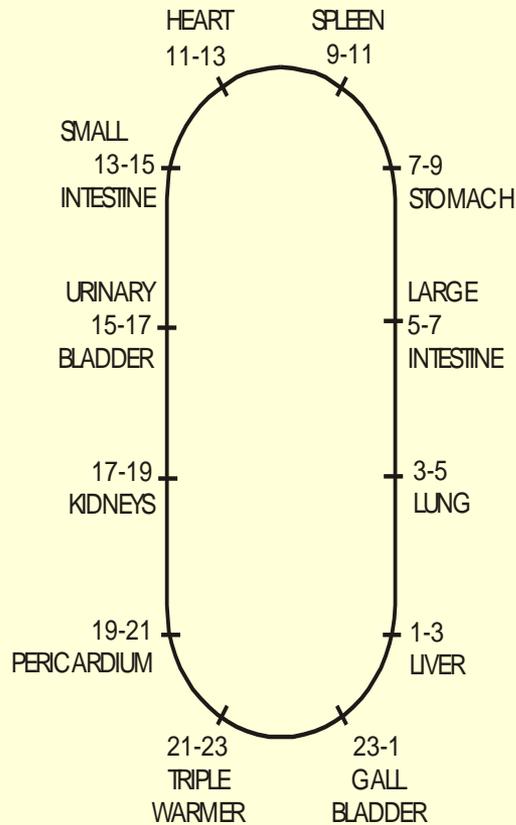


Figure 1. A three-dimensional model of the gap junction channel based on X-ray diffraction studies. Each apposite cell contributes half of a channel (hemi-channel) called a connexon. Each connexon (~ 1.5 nm in diameter) is formed from six hexagonally arranged protein subunits (~ 7.5 nm in length) called connexins, which have the function of self-organization in connexon and linking with the opposing connexon of neighboring cell. The whole process is very flexible and depends on the current state of the cellular environment, with modulating conductivity of GJ-channels by intracellular pH-factor, Ca^{2+} -ions, neurotransmitters and second messengers, and even voltage – that are changing the conformational state of connexon (similar to the aperture of the camera).



(a)



(b)

Figure 2. Display of traditional Chinese representation of circulation of qi within human body: (a) during 24 hours, and (b) hours of maximum activity of organs; actually, each side of the body has its almost independent circulation of qi.

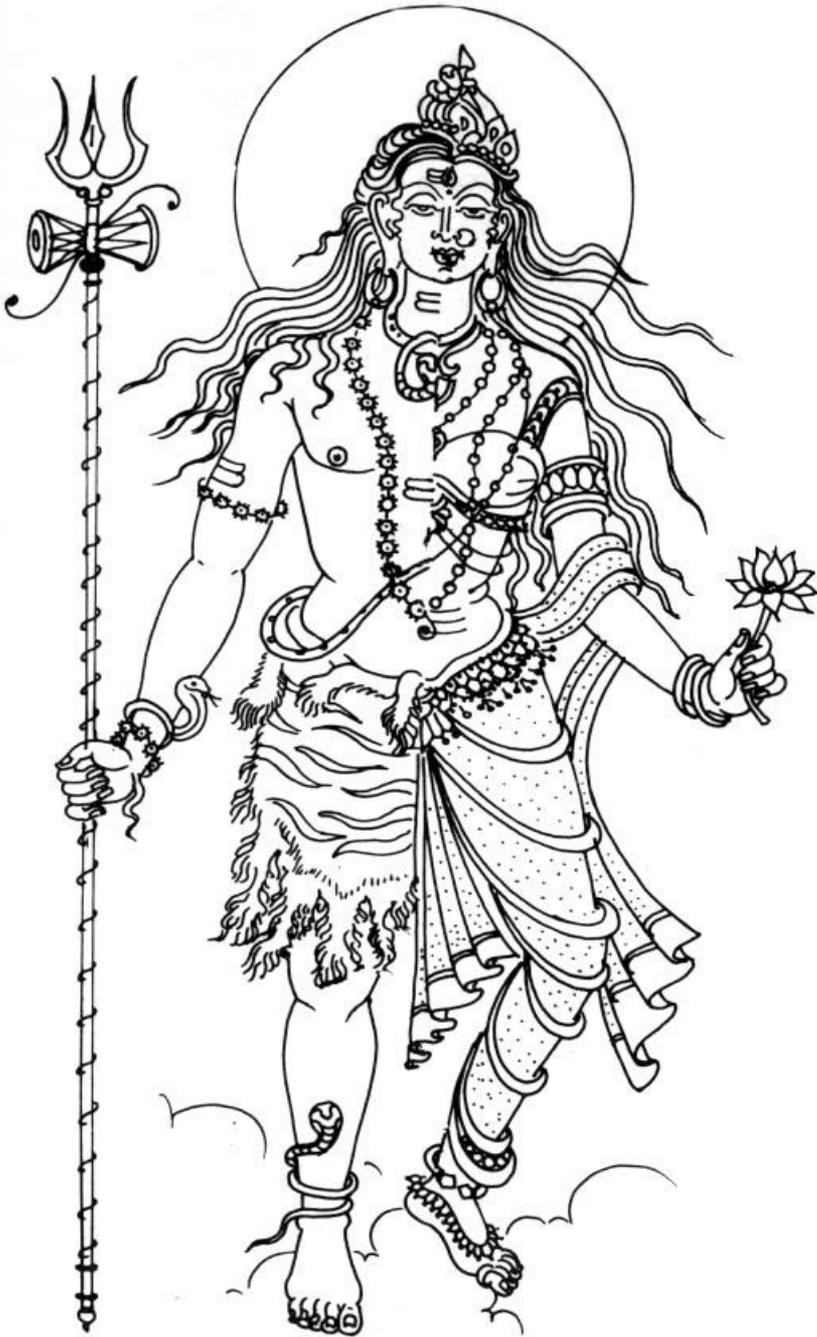


Figure 3. Ancient Indian concept of the left-hand side of the body as a female (Shakti) and the right-hand side of the body as a male (Shiva), through the representation of the Hinduistic deity Arda Narishvara.

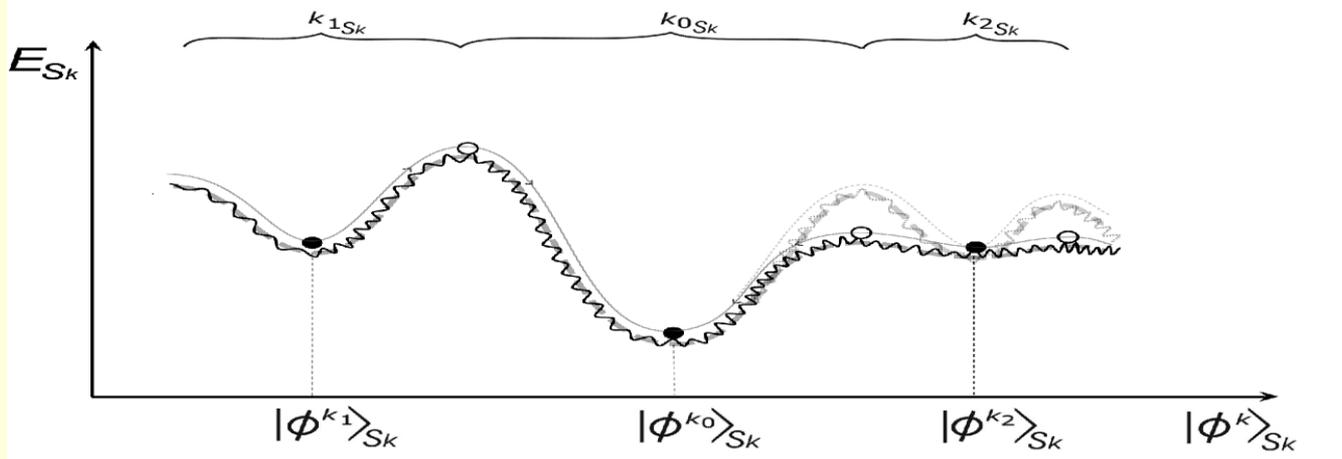


Figure 4. Schematic presentation of the adaptation of memory attractors (states) in the energy-state ($E_{S_k}(\phi^k)$) hypersurface of the **quantum-holographic memory** of various hierarchical levels of biological **macroscopic open quantum systems** S_k (**local cell's biomolecular protein-target, local body's energy-informational system-consciousness, or nonlocal out-of-body consciousness-collective consciousness**):

$$G(r_2, t_2; r_1, t_1) = \sum_{i=1}^P \phi^{k_i}(r_2, t_2) \phi^{k_i*}(r_1, t_1) = \sum_{i=1}^P A_{k_i}(r_2, t_2) A_{k_i}^*(r_1, t_1) e^{\frac{i}{\hbar}(\alpha_{k_i}(r_2, t_2) - \alpha_{k_i}(r_1, t_1))}$$

It should be pointed out that Nature presumably has chosen elegant **biological room-temperature solution for quantum-holographic information processing**, permanently fluctuating between quantum-coherent $|\phi^k(t)\rangle_{S_k} =$

$\sum_i c_{k_i}(t) |\phi^{k_i}\rangle_{S_k}$ and classically-reduced $\hat{\rho}_{S_k}^k(t) = \sum_i |c_{k_i}(t)|^2 |\phi^{k_i}\rangle_{S_k S_k} \langle \phi^{k_i}|$ states of the biological macroscopic

open quantum system S_k , via non-stationary bioresonance interactions with out-of-body farther environment and through decoherence by bodily closer environment. Thus **quantum neural holography** combined with **quantum decoherence** might be very significant element of the **feedback bioinformatics**, from the level of cell – to the level of organism – and further to the level of collective consciousness, with **backward dynamic influence on the expression of genes**. This implies **necessity** of quantum-informational successive **bioresonant balancing** of all unwilling side memory attractors (like ϕ^{k_2} in the Figure), which would cause development of **psychosomatic diseases** on the individual level, and **interpersonal fights** in this and further generations on the collective level.

Note 7. These traditional holistic concepts might be additionally supported by fundamental **holographic principle** according to which any (3D) physical system is *isomorphic* to the holographic information embedded on its (2D) surface, which implies that quantum-informational content of our 3D body *could be holographically contained* in the corresponding 2D surface layer – **in line** with our macroscopic **Hopfield-like quantum-holographic framework for psychosomatics** & proposed **close psychosomatic relationship of body's energy-informational system & consciousness** as well (*also supported by novel meridian (psycho / energy) therapies*, with fast removing of traumas, phobias, allergies, post-traumatic stress and other psychosomatic disorders, via simultaneous effects of *emotionally-involved visualizations* of psychosomatic problems & *tapping / touching* of prescribed acupoints!).

Note 8. It should be pointed out, that our *macroscopic quantum-informational Hopfield-like holographic framework for psychosomatics* also implies that *quantum-holographic hierarchical parts carry information about the whole* (which resembles Hindu relationship **Brahman / Atman**, as a whole & the part which contains information about the whole!), allowing **fractal quantum-informational coupling of hierarchical levels in Nature**. This is supported by **acu-system & its projection zones** (ECIWO holographic concept!), **quantum-holographic influence on expression of cell's genome** (by linguistic-wave-genetic-modulation of irradiating-laser beams!), **transpersonal origin of amazing creativities** (Tesla & Mozart as case studies!), & **predestinated life paths & temptations** (experiences of hypno-regressions & tribal traditions & traditions of East & West, while still emphasizing *possibility* to reprogram/ optimize them by spiritual purification!).

Note 9. In this context, despite the **(unitary) deterministic evolution** of *quantum-informational Hopfield-like holographic neural network of collective consciousness* (as there is no out-of-cosmic environment that triggers (non-unitary) collapse of quantum-coherent state of field-related cosmic collective consciousness & the complement particle-related cosmic environment) – *memory attractors of collective consciousness could still be **prayer-re-programmed*** – probably **via prayer-excited new macro-quantum energy-informational portions of vital energy / uncreated light in prayer-related persons** (similarly to *mentally-channeled prana / qi / ki in local & transpersonal healing in Ayurvedic / Qigong / Reiki practices*), as **disentangling energy-informational indeterministic intervention** in quantum-holographic evolution of collective consciousness (and incoming individual & collective events), thus **(non-unitary) setting new boundary conditions**).

Note 10. This leaves most room for **free will** and influence on future preferences – implying **indispensable role of individuals** due to their influence & care for both **individual & collective mental environment**.

Note 11. Hence, the *above multidisciplinary considerations* might imply that **joint research** on the crossroad of **psychosomatic integrative medicine** (and related open problems of body's energy-informational system & consciousness, including vital energy & transpersonal phenomena (for instance, cf. Notes 12 – 14)) and **quantum informatics** (and related open problems of quantum physics & general relativity (for instance, cf. Note 15)) may become **fruitful in spreading frontiers of existing scientific paradigm**.

Note 12. Based on the principles of *photonic crystals & photonic bandgap guiding* (where the confinement of photons in some low-index hollow-core 3D defect might be achieved by exploiting photonic bandgap reflectivity of surrounding higher-index (quasi) periodic medium!), experiments of *Sit'ko et al* inspired our interesting proposal to consider the *low-index $n = 1$ acu-channels as 3D photonic crystal channel waveguides of propagated EM MW photons* (influencing backward the structure & ionic conductivity of channels), *confined by surrounding higher-index (quasi)periodic cellular body medium outside 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) of *non-propagated EM MW evanescent photons* (with similar mechanism possibly extendable in the visual range, to account for experiments of *Popp et al* with ultra-weak biophoton light channels).

Note 13. Then, quantum-field theoretical formalism of *Umezawa et al & Del Giudice et al* suggests deeper biophysical origin of *evanescent photons in water* – whose *EM field-related macro-quantum condensates* might be the basis of traditional (but scientifically poorly understood!) concepts of *qi / prana of body's energy-informational system / consciousness, detectable within low-index hollow-core defect acu-channels & non-detectable outside them* (with possible generalization from evanescent EM field to evanescent unified field, in line with traditional comprehension of *chi / qi / ki, prana / akasha, mana, ka, pneuma / ether / natura medica / anima mundi, yesod, baraka, uncreated light / Holy Spirit, Innate Intelligence, bioenergy / biofield* as all-pervasive cosmic quintessence).

Note 14. <http://www.youtube.com/watch?v=2JSk4T9IN3I>; Videorecord of peculiar **psychokinetic abilities** demonstrated by **Serbian boy** (with healing inborn abilities too, which clearly testify in support of his strong vital energy), whose breast is sticking metallic, plastic or glass objects weighted up to several kilos (probably due to **anti-gravitational cancellation** of local gravity field **on boy's chakra points**, spontaneously supplied by strong vital energy through transpersonally opened energy channels, as in Qigong or Reiki).

Note 15. Our extended quantum-informational / quantum-gravitational theoretical framework of body's energy-informational system & consciousness, including vital energy & transpersonal phenomena, also suggests a physical basis for ad hoc **von Neumann's projection postulate at micro-quantum scale**, to explain quantum-mechanical wave function collapse (via local quantum-gravity-induced & exotically stabilized wormhole tunnels in strong-gravity-equivalent **highly-non-inertial quantum-measurement-like situations**); the question of how it is possible that these highly-non-inertial micro-particle processes with inevitable opening of miniature wormhole tunnels (**according to Einstein's principle of equivalence!**) were not taken into account within quantum mechanics that is yet extremely accurate theory(?!) – could be answered as **they possibly implicitly were(!?)** within von Neumann's projection postulate (with its physical origin on **deeper quantum-gravitational-level!?**). On the other hand, their **macroscopically accumulated exotic anti-gravitational imprint** might possibly be **observable on cosmological scale** (or have been already detected(?!) by recent advances in cosmological tests, which invite again **Einstein's cosmological constant & related hypothetical dark energy or quintessence** which permeates all of space & tends to accelerate expansion of the universe). Finally, it should be added that so called **gravity / gauge theory correspondence in string theory** suggests that quantum-gravitational traces of miniature wormholes are present even within ordinary quantum-field theory, as **any quantum entangled system** (i.e. Einstein-Podolsky-Rosen correlated quantum pair) is **connected by some sort of miniature (non-traversable) wormhole** (i.e. quantum-gravitational Einstein-Rosen bridge); (as stated previously, its possible traversability in cosmological conditions was considered as well).

Conclusion

*Tesla's introspective analyses may provide a clue for deeper understanding of **quantum-holographic framework for holistic control of Creativity & Education** – based on meditation insights & subtle interplay of normal & transitional & altered states of consciousness – in carefully guided & increased quantum correlations of individual & collective consciousness.*

*In wider context, Tesla's whole research may also provide an inspiration for **re-consideration of global educational / informational / political goals** – with re-orientation towards holistic gentle actions for solutions of 'global risk society'.*

*Regarding Tesla's extraordinary creative experiences in meditative states, his conviction '**when we start to study non-physical phenomena, we will progress more in ten years than we have for centuries**' – represents Tesla's legacy for new millennium & road to quantum-holographic primal source – revealing possibility for control & optimization of macroscopic quantum correlations of individual & collective consciousness.*

*This leaves most room for **free will & influence on future preferences** – implying essential role of individuals due to their influence & concern for **individual & collective mental environment**, as fundamental question of spiritual & civic morality as well – invoking appearance of grand synthesis of two modes of knowledge within quantum-holographic paradigm.*

References

1. N. Tesla, *My Inventions: The Autobiography of Nikola Tesla*, Hart Brothers, Williston, 1983; the original six-part series published in *Electrical Experimenter Magazine* in 1919 has been republished in this book; D. Raković, On nature and control of creativity – Tesla as a case study, in: D. Karabeg, J. Park, eds., CEUR-WS.org/vol-822 (2011), *Proc. 2nd Int. Workshop on Knowledge Federation*, Dubrovnik, 2010; (with notification that Tesla's Visions & Inventions realized in his Controlled Altered States of Consciousness, are proposed to be manifestations of *Meditation Insights & Carefully Guided & Increased Macroscopic Quantum Correlations of Individual & Collective Consciousness*, with significant *Quantum-Holographic Psychosomatic-Spiritual & Creative-Educational global implications*).
2. D. Raković, *Integrative Biophysics, Quantum Medicine, and Quantum-Holographic Informatics: Psychosomatic-Cognitive Implications*, IASC & IEPSP, Belgrade, 2009; D. Raković, A. Škokljević, D. Djordjević, *Introduction to Quantum-Informational Medicine, With Basics of Quantum-Holographic Psychosomatics, Acupuncture and Reflextherapy*, ECPD, Belgrade, 2009, in Serbian; D. Raković, S. Arandjelović, M. Mićović, eds., *Proc Symp Quantum-Informational Medicine QIM 2011: Acupuncture-Based and Consciousness-Based Holistic Approaches and Techniques*, QUANTTES & HF & DRF, Belgrade, 2011; D. Raković, Hopfield-like holographic framework for holistic psychosomatics, *Symp Research & Applications in Psychology, SICAP 24: Cognitive Characteristics of Transdisciplinarity. Applications in Psychology & Psychotherapies*, 24-26 March 2017, Timisoara (Keynote lecture, preprint); D. Raković, Quantum-informational bases and frontiers of psychosomatic integrative medicine, in: B. Reljin, S. Stanković, eds., *Proc NEUREL-2014*, IEEE Serbia & Montenegro Section, Belgrade, 2014, pp. 105-110 (Invited lecture of the similar content presented at: *7th European Congress for Integrative Medicine (ECIM 2014)*, 10-11 October 2014, Belgrade); and refs. therein (overview of author's concept of *Integrative Biophysics & Quantum-Holographic Informatics & Quantum-Holographic Acupuncture-Based & Consciousness-Based Psychosomatics*).

3. D. Raković, On quantum-holographic bases and frontiers of integrative medicine and transpersonal psychology: psychosomatic, epistemological, and spiritual implications, in: G. Brekhman, M. Sovilj, D. Raković, eds., *Proc 1st Int Congress on Psychological Trauma: Prenatal, Perinatal & Postnatal Aspects (PTPPPA 2015)*, LAAC / IEPSP, Belgrade, 2015, pp. 59-72; D. Raković, On quantum-holographic bases of psychophysiological development of a child, in: M. Sovilj, Lj. Jeličić, T. Adamović, eds., *Psychophysiological Development of a Child: Prenatal, Perinatal and Postnatal Aspects*, LAAC / IEPSP, Belgrade, 2016, pp. 307-339, Invited chapter (to be reprinted in: J.R.G. Turner, T.G.N. Turner, eds-in-chief, *Int J Prenatal & Life Sciences (Special Issue): Prenatal & Life Sciences Centenary Anthology, 100 Years of Prenatal Psychology: Vital Keys to Understanding the Meaning in Life*, 2018); D. Raković, On biophysical energy-informational nature of acupuncture system, consciousness and vital energy, in: M. Sovilj, M. Subotić, eds., *Proc Speech & Language 2015, 5th Int Conf Fundamental and Applied Aspects of Speech and Language*, LAAC / IEPSP, Belgrade, 2015, pp. 201-211; Similar Invited lecture was presented at: *1st Rubicon Group Conference*, 11-13 March 2016, London); and refs. therein (overview of author's concept of *Quantum-Holographic Bases & Frontiers & Traditional Concepts of Integrative Medicine & Transpersonal Psychology*).

4. Z. Matic, A. Žikić, D. Raković, B. Milovanović, Neurocardiology as integrative science: coordination with Traditional Chinese Medicine, in: B. Milovanović, C. Podoleanu, eds., *Proc. Neurocard 2016, The 8th Int. Symp. Neurocardiology & 7th Int. Symp. Noninvasive Electrocardiology*, Univ Press Targu Mures, 2016, pp. 70-74; B. Bedričić, M. Stokić, Z. Milosavljević, D. Milovanović, M. Ostojić, D. Raković, M. Sovilj, S. Maksimović, Psychophysiological correlates of non-verbal transpersonal holistic psychosomatic communication, in: S. Jovicic, M. Subotic, eds., *Verbal Communication Quality Interdisciplinary Research I*, LAAC / IEPSP, Belgrade, 2011, Invited chapter; D. Raković, Ž. Mihajlović Slavinski, M. Sovilj, S. Pantelić, N. Stevović, J. Bojovic, I. Džamić, S. Jovičić, Dj. Baljuzović, M. Ostojić, M. Tomašević, D. Radenović, P. Šuković, L. Škarić, Techniques altering states of consciousness: phenomenology, psycho-physiological correlates, and quantum-holographic psychosomatic-cognitive implications, in: S. Jovičić, M. Sovilj, eds., *Speech and Language: Interdisciplinary Research III*, IEPSP, Belgrade, 2009; D. Raković, Z. Jovanović-Ignjatić, D. Radenović, M. Tomašević, E. Jovanov, V. Radivojević, Ž. Martinović, P. Šuković, M. Car, L. Škarić, An overview of microwave resonance therapy and EEG correlates of microwave resonance relaxation and other consciousness altering techniques, *Electro- and Magnetobiology* 19(2) (2000) 195-222, Invited lecture previously presented at *10th Int. Montreux Congress on Stress*, Switzerland, 1999; and refs. therein (overview of our research of *(Psycho)physiological Correlates of Transpersonal Communications & Other Controlled Altered States of Consciousness*).

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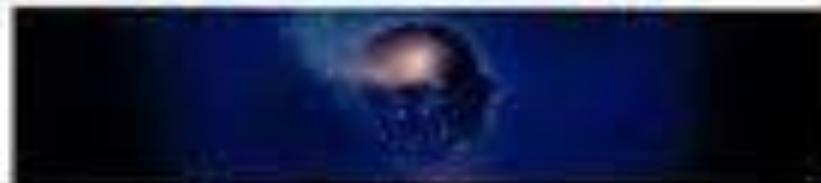
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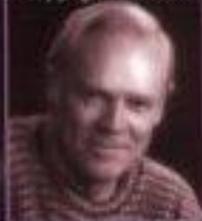
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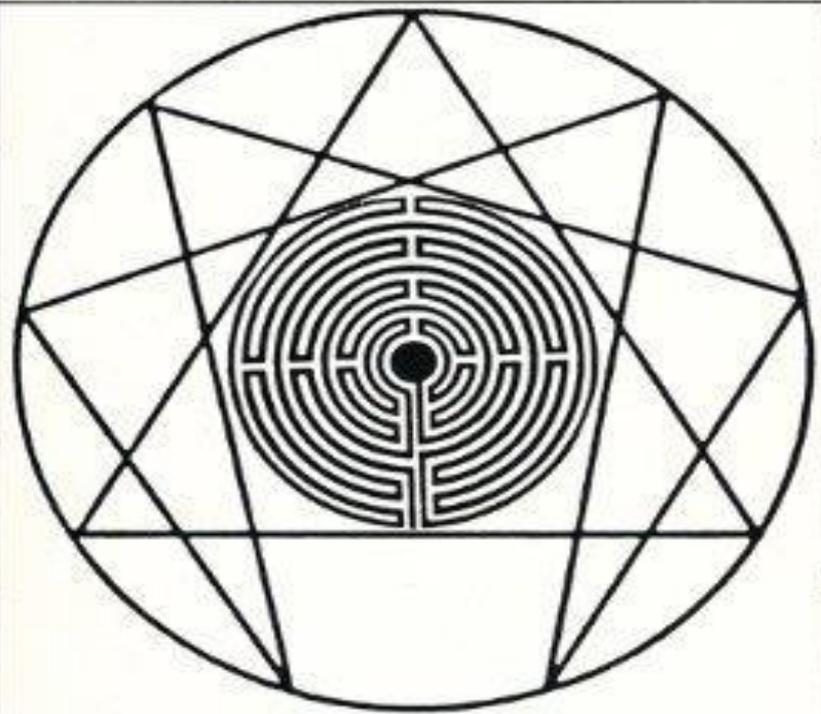
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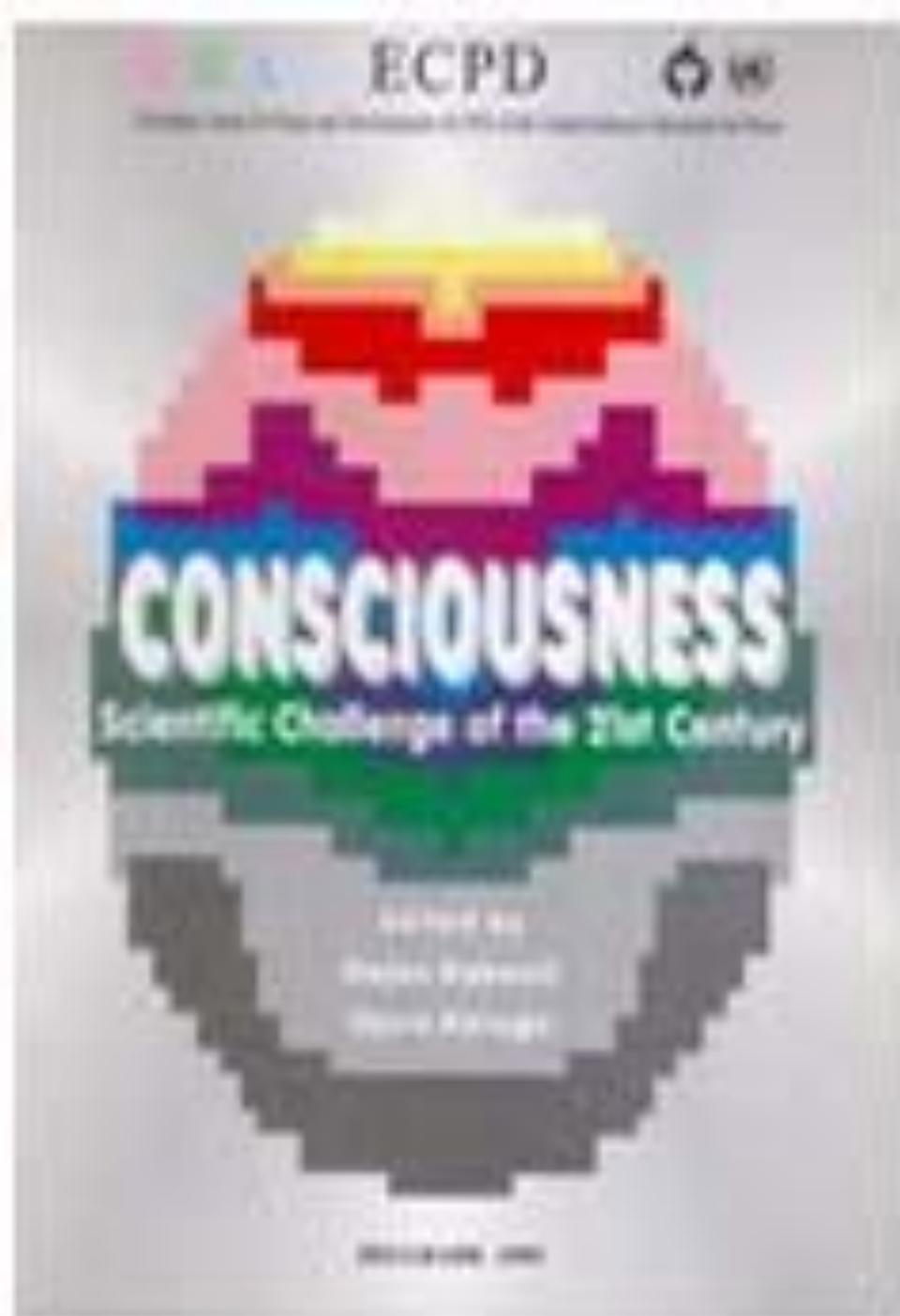
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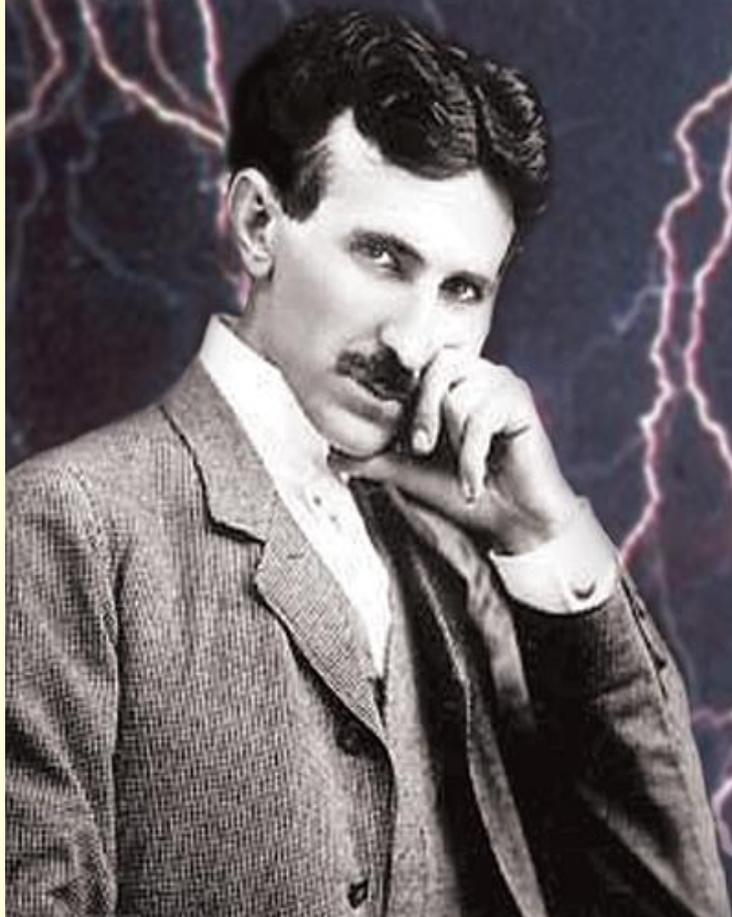
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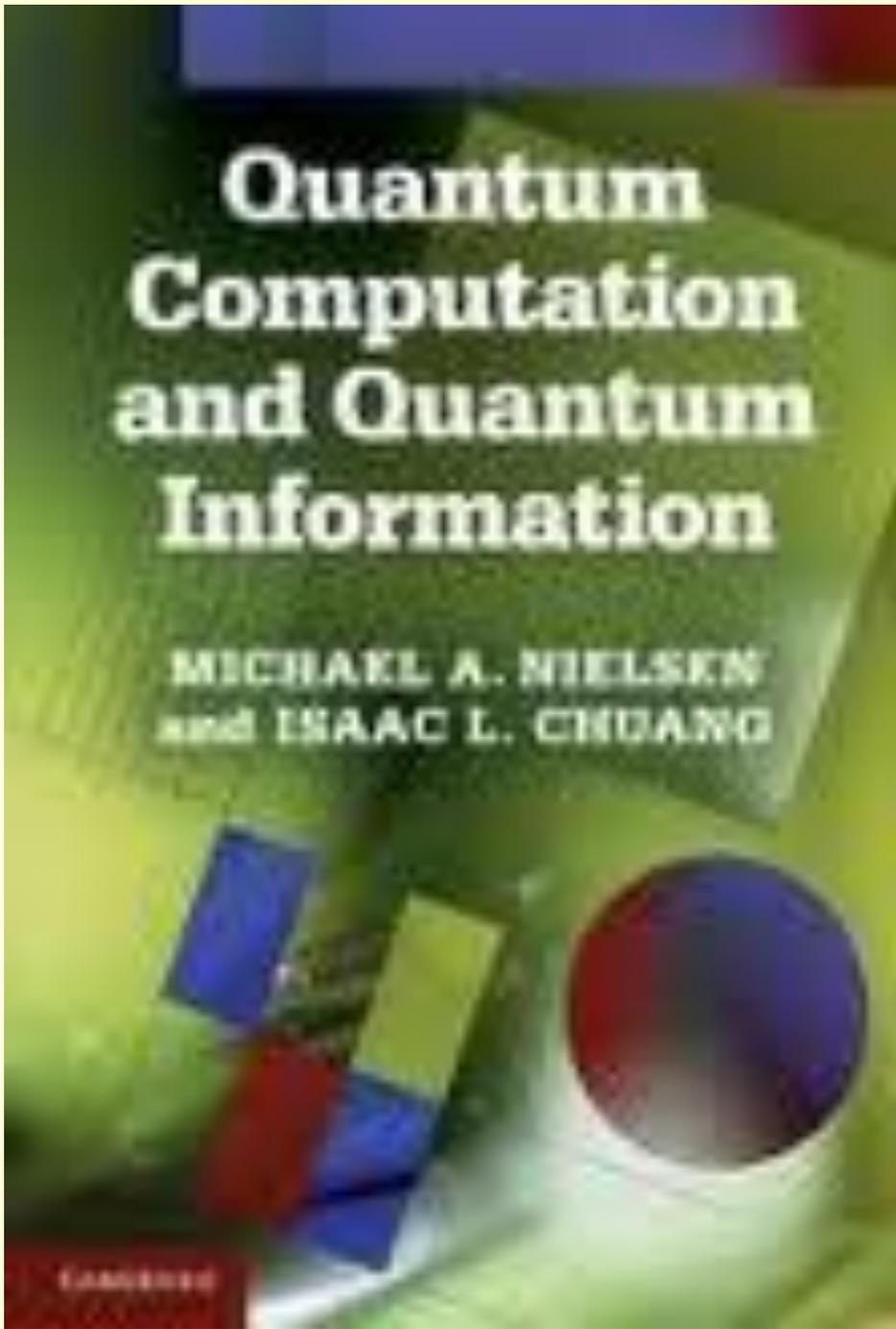
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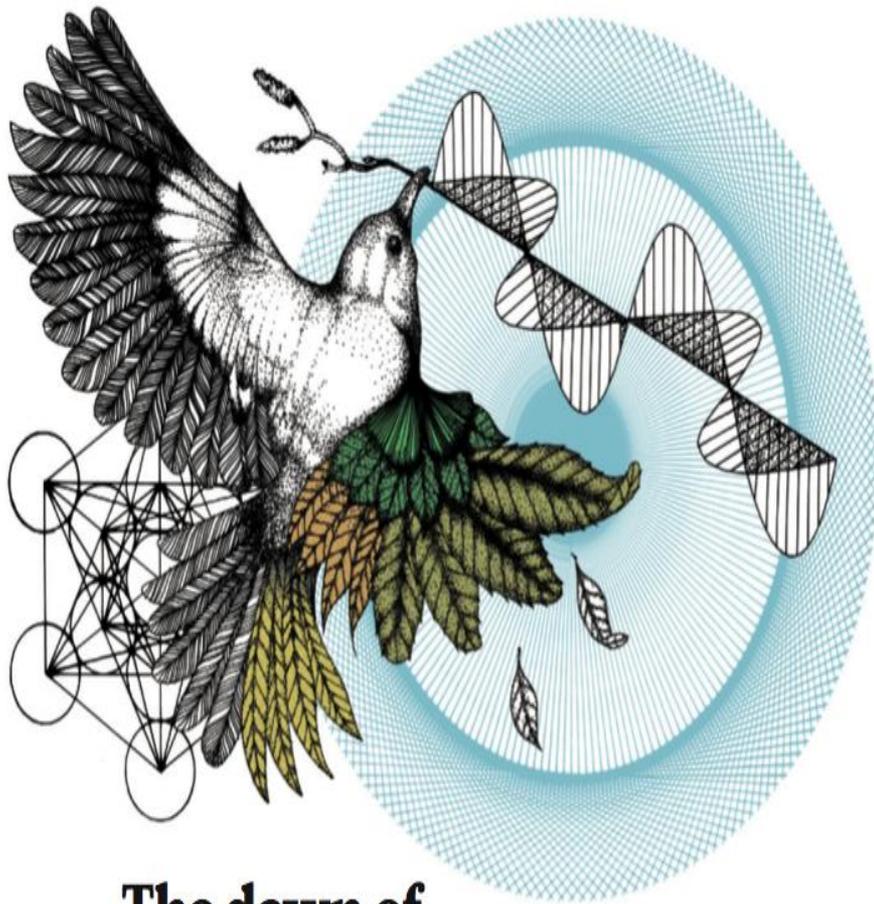
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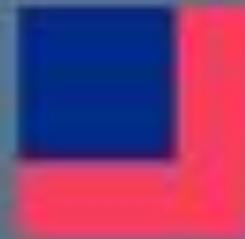
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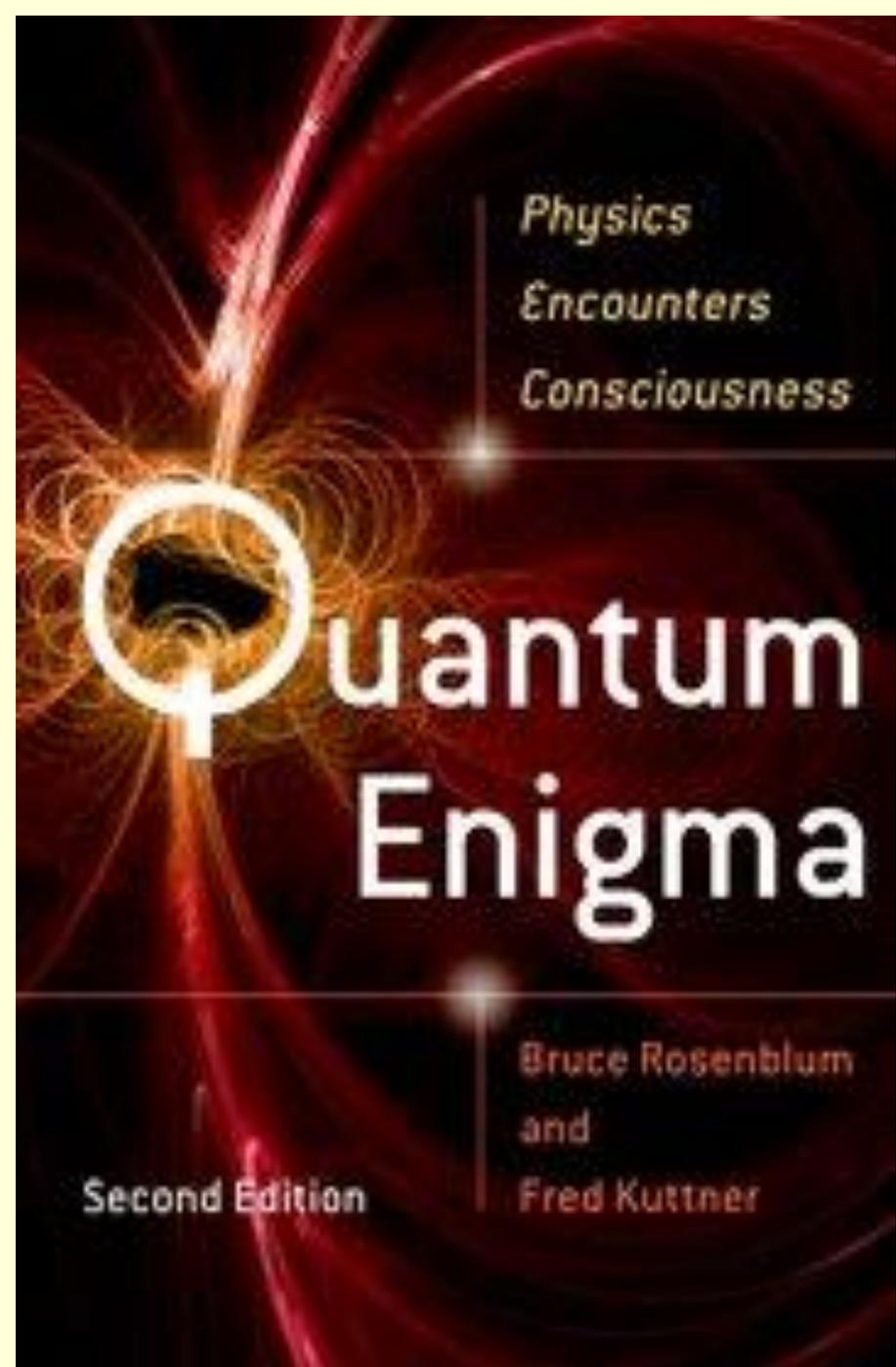
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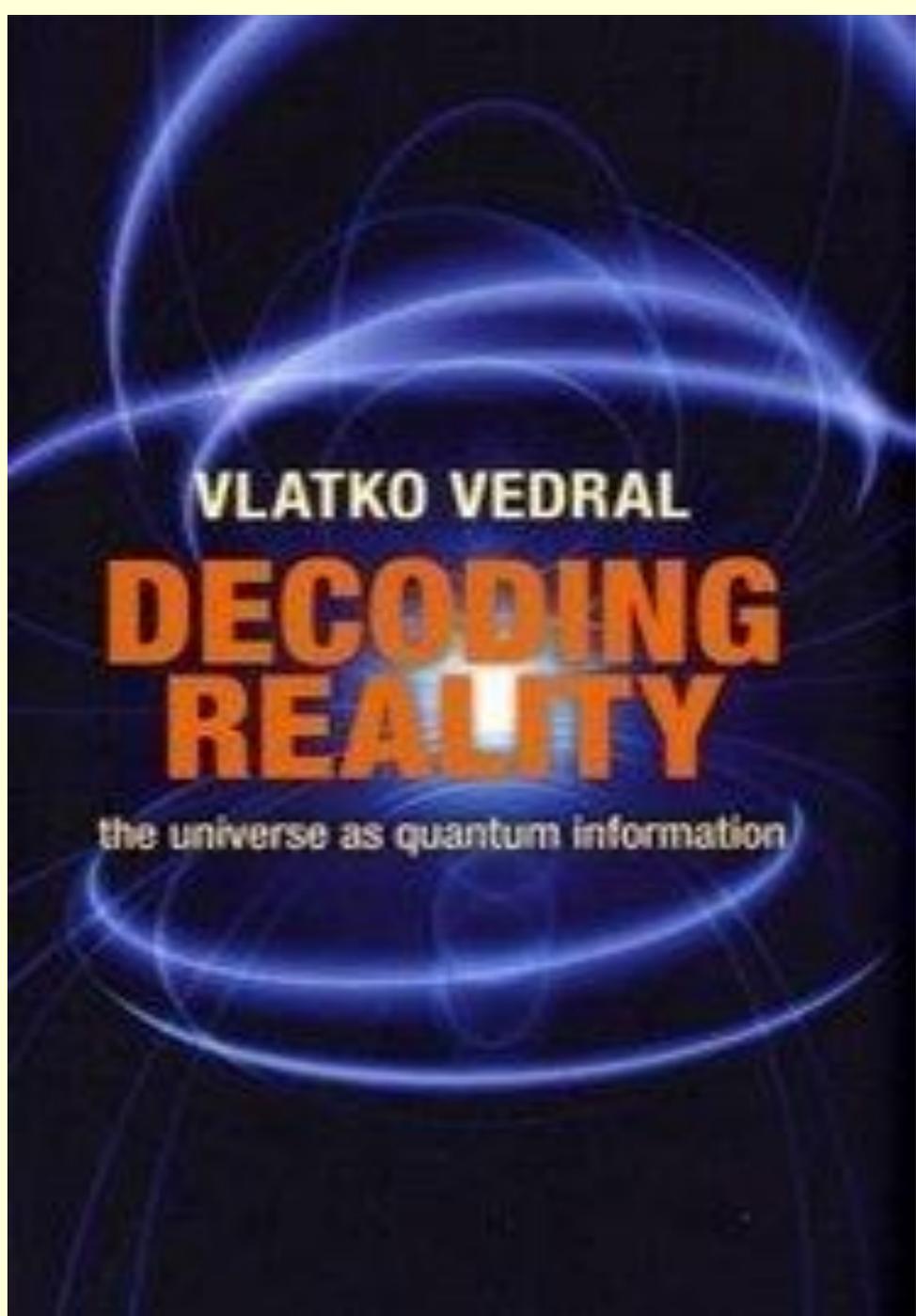


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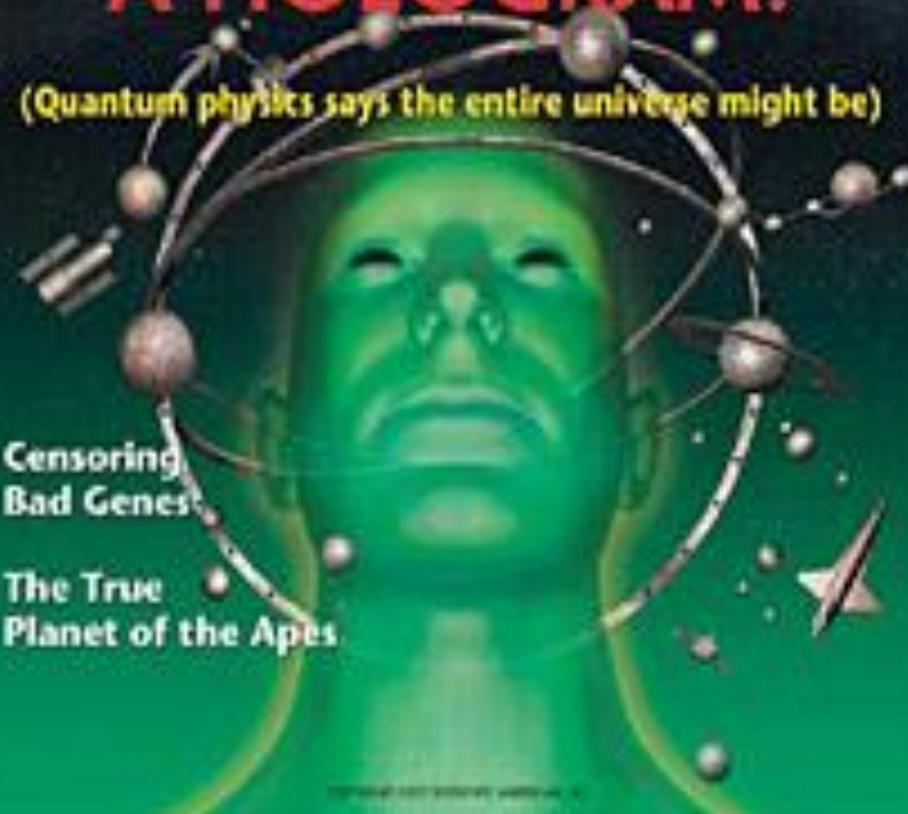
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