

GOD'S AND MIND'S WISDOM PURPOSIVE EMERGENT INFORMATION GENERATE THE WORLD; ITS TANAKH METAPHORS

PREFACE

In our postmodern society, tended to transhumanism is observable a growth of skepticism interweaved with relativism to all traditional values, and above all to the of the Bible, and in our case, of the Hebrew Bible and Torah.

The metaphorical language of Tanakh, and its information parallels in latest science

In the appropriate naive, pre - scientific era, the language of Tanakh, naturally were polysemantic, and Israelites mind elite, the composer of Tanakh, widely used metaphors, allegories, parables. It is to regard that the sacred Hebrew scrolls had been scripted without vowels, punctuation and even spaces that lead to multi -various interpretations. That are consistent with the rabbinic maxims that the "Torah has seventy facets" or 'fifty gates' (Maimonides).

In Judaism is also applicable a fourfacet interpretation of the Torah's narratives, as follow: *Pshat* - literal; *Remez* - hint; *Drash* - metaphor; *Sod* - secret. All that coded as *PaRDeS* - Garden. Correspondently the narratives of Tanakh, and particularly of the opening chapters of Genesis and Job are interpretable in a wide diapason, not always perceivable by translation (e.g. in English).

On one hand, the verses of Scripture were dedicated for just recently freed slaves, illiterate and highly naive. On the second, the dynamic , plastic biblical Hebrew overflowed with spontaneous intuitive metaphors, whose essence are algorithmically compressed information.

The variable interpretation of Tanakh metaphors parallels in some sense to up - to dated scientific achievement in our era of experimental cosmology impressed through Einstein's relativity theories and quantum physics(Tim Callahar, " Secret Origins of the Bible", 2007).

An inciting trigger to research the predominant role of *wisdom* as a *metaphor* of God's sum of actions, were the holy scripts of Torah, e.g. Tanakh. These original sources inspired us to envision wisdom also as a integral concept of purposive agencies for self - growth of the Universe and its laws bio -friendliness towards an anthropocentric world.

Besides, the extended analysis of special literature sided our key positions of the work.

THE BASIC IDEAS and POINTS DISCUSSED in the WORK ARE:

1) Primordial wisdom conceptual metaphor of God (iG) purposive agencies - matrix of energy and emergent information guidelines generated abiotic Universe towards a bio - friend world.

2) The human mind's wisdom evolves in a biogenesis stage of our world, due its main agencies: a) imagination; b) intuition; c) inspiration; d) emotion psychology; e) logical analysis; f) free will; and also g) an enrich with experience.. That key agencies are the core of mind's creativity and wisdom. Mind's wisdom shapes the bio - friend laws, and perfects own humanity, ethics.

3) Thus, from the apt points emerge our conception of an 'inductive' and 'perfective' phase of origin and evolve of the Universe and Life with his pinnacle human mind wisdom.

In the 'inductive' stage an abiotic Universe was guided due a primordial wisdom with its purposive matrix agencies - energy and emergent creativity information, that also foster the bio - friendliness of Universe's laws towards a self - complexifying human mind. In the 'perfective' stage the already developing human mind's

wisdom play a role both as an observer, resonating to information of Universe and biosphere, and also tempts it preserve, and even its laws and himself to perfect.

4) Imaginable that the primordial wisdom conceptual metaphor of a God, rather related to an immanent God (iG), which purposive matrix of energy and emergent information of creativity is etched in a Big Bang - primordial Universe in a frame of a pantheistic system, interacting with human mind wisdom. That system emerged concurrently, and runs by a feed-back mechanism.

5) The pantheistic system is promised as ecumenical, which God of nature is only a metaphoric symbol of Universe/nature's creativity's wisdom, in contrast to the theistic religions that in a name of adequate God are driven to hate 'infidels' of other religions. On that evidence the history of interfaith ardent fights, massacres and so on. Currently, we are encountered of apocalyptic hazards of the Islamic radicals.

6) The human mind wisdom is a discoverer of a holy symbol - a God, e.g. iG, and his imagined activity generalized metaphorically than a primordial wisdom purposive guide of an abiotic Universe, and its laws bio-friendliness, as well-an observer and maker of reality.

The historic and personal experience especially of the Jewish people standpoint, a Tanakhic so-called God-'choices people', at heart is the most persecuted and massacred, e.g. holocaust, and the current in progress holocaust of 6-7 millions of Israelis. Accordingly arise the question on a very existence of a personal God of the 'choices' people, continuously living under the eternal dread of anti-Semitism.

Moreover, quite all world fountains of oil and gas fuels, and thus a gigantic wealth are in the disposal of Islamic or other radicals - haters of the Western Judeo-Christian civilization. All this wealth is thrown in a savage total war against the progressive Western world. Hence where the providence, the care of the personal God, to people that believe and pray to him ?!

Meanwhile, the people, particularly the lay people adaptively urge a some supermind wisdom agency as a holy symbol - God that guides purposively for origin and evolve of an anthropocentric Universe, with a human mind's wisdom tend to humanity and ethics perfection. An appropriate God's activities metaphor-purposive wisdom can serve a sure hope belt for people's survival and perspectives for a better future.

The new positions are further explicitly discussed and substantiated, and for the majority of them are offered competent Tanakhic metaphors.

We must to confess that being a lay-physicist and cosmologist, our obligation was to sustain the offered new ideas and positions on a sufficient representative literature of authorities mostly of whom are widely acclaimed.

PART ONE. WISDOM - A CONCEPTUAL METAPHOR OF GOD'S ACTIVITY, WHICH CORE - PURPOSIVE AGENCIES: A) ENERGY; B) EMERGENT INFORMATION FOR ORIGIN OF ABIOTIC UNIVERSE, AND ITS BIO-FRIEND LAWS TOWARDS HUMAN MIND'S WISDOM; TANAKH METAPHORS

1) 'WISDOM-GOD'S METAPHOR(naive),parallels CURRENT GOD'S METAPHOR

Hints on wisdom as a key attribute of God's creative activity, personified with him, we find above all in the Tanakh's wisdom books (Job, Proverbs, Psalms, and Ecclesiastes), as well as in some other - Ben Sira, and 'Wisdom of Solomon or 'Book of Wisdom' (of an Alexandrian Jew, 1st century CB). To the point the topic "Wisdom a metaphor of God" Google registered 1790.000 times at May 19 (2008).

The notion of God's wisdom due which was built the world was sided by

following verses: Proverbs 8:22-30, e.g. (8: 22)- "*The Lord created me at the beginning of His course At the first of His works of old*"; of Psalm (104: 24). -"*How many are your works, O Lord! In wisdom you made them all*". and of Job (28:28) -"*He (God) said to man, See ! Fear of the Lord is wisdom;...*". and of Nechem. 10:12 (*He*)... *Established the world by His wisdom*". So also the narratives of Isa.(40-41) rings as a metaphor of God's infinite wisdom.

Selected Jewish philosophers of Judaism: Judah Ha -Levi, Maimonides, Rashi, Martin Buber, the Chief Rabbi of UK Sir Jonathan Sacks, physicist and scholar of Torah Gerard Schroeder, Ph.D, etc., stressed that the key attribute of the invisible, uncorporeal, nonapprehensive God is His creativity acts exerted through wisdom.

That was resounded in the inferences of Sir Sacks, that "*In the beginning God created..*". from perspective of *khochmah*, wisdom (in Faith Lectures, website Faith, 1991), and Schroeder, interprets the opening word of Genesis "*Bereyshit*" as '*With wisdom God created the heavens and the earth*'(Tothesource website, March 1, 2006).

That view overlaps with Bat Kol Institute's assumption, issuing from *parashat* that in accord with rabbinic interpretation on God symbol is accepted as wisdom (*Hashuvuah*. December 5, 2005), as well of Barbara Brodsky's claim that God's metaphor is wisdom (site Summer Mediation Retreat,2000).

In kind is also the deliberations of Robert J. Sneider, the distinguished professor of general studies and professor classical language, shared in his seminars "Science and Faith" at Berea College (in the course 2005-7). He underlines that the Old Testament's (Hebrew Bible) main theme is that God creates all things in wisdom, an expression of God own nature (as its metaphor).

To that thesis admitted likewise the noted theologian David Atkinson (The Message of Proverbs',1994,8), that 'the wisdom of God are the heart of God's creativity and purpose for his world'.

The deliberations on the crucial role of God's Torah's wisdom evidence also the interpretation of Rashi, one of a leading experts of Tanakh (1040 - 1105). He argued that the prefix of the Hebrew letter "*B*" of "*B'reyshit*" could mean that on the behalf of Torah's wisdom was created the heavens and earth (in Chumash with Targum Onkelos Haftaroth, and Rashi's Commentary, translated by A.M. Silberstein (1985), Chumash, Genesis, Ha -Tsuva, ed. Jerusalem, 1990, in Russian).

Backed by Rashi commentaries, the noted professor of mathematics and Judaism study Richard Ellis (the University of Massachusetts, Amherst), accepted that the Torah[*'s wisdom*] preceded creation as some blueprint of creation. (A Quarterly J. of Jewish Life and Thought, March, 22, 2002).

However, in the 'God the Riddle' (2007) of Douglas Jones, is discussed the deep essence of God that is wholly unclear, mysterious, and in accord with St. Thomas Aquinas maxim 'God is known, but what is God remains unknown', and he is imaginable only through his wisdom acts.

Nevertheless for most health skeptics God is envisioned mere as an idea: professor of philosophy Hermann Cohen (1902), Roy Abraham Varghese (2004) and Remi Brague (2007), the author of 'Wisdom of the World'.

Another metaphor of God as Mind introduced Perry Marschal, expert of webnet protocol, and founder of site '*thefingerprintsofgod*', where also the idea is posted in 2005-2007. Correspondently the Creator of the world with his innate wisdom is Mind, i.e. God. Analogously Bernard Haish, a noted astrophysicist, and NASA - funded scientist, in his provocative book '*The God Theory*' (2006), argues that God metaphor is imaginable than a notion '*cosmic consciousness*', the maker of amazing complex structures of the universe and human being.

Consistently to our convince, "wisdom" may be a key metaphor of God, namely his activity. The notion is concerned above all with Torah's wisdom and its

modernized version, its renaissance in relation to contemporary natural and humanitarian sciences.

A pertinent sustaining to our offer of wisdom as a metaphor of God, we received generally from Rashi, and more directly from some other authors. So, the former the opening word of Genesis "*Bereyshit*" prefers interpret in a metaphorical, midrashic manner, on its cosmic significance that this *Torah's wisdom* first verse encoded the blueprint of Creation.

Whereas Daniel Septimus and Meredith Kesner Louis, the editors of website 'My Jewishlearning.com' posted "wisdom - the powerful biblical metaphor of God". In his turn Corrine Carvalho, Ph.D (the University of Saint Thomas, Minnesota), in his fundamental book 'Encountering Ancient Voices: A Guide to Reading the Old Testament', insisted that 'wisdom is a metaphor of God's plan of creation, coming before the act of creation'. Furthermore, wisdom does not disappear once the world ongoing evolves.

Correspondently, only after consultation with Torah's wisdom God started the Creation of the world. The sages respectively predicated that "(God) *Istakel d'Oraisa u'bara elom*", e.i. - God looked into the Torah and created the world.

Along other adequate narratives, where Job is questioned "*But whence does wisdom come? Where is the source of understanding? It is hidden from the eyes of all living*"... "*God understands the way to it. He knows its; He knows its knows its source*";... (28:12; 20-21;23).

To the point, the cited Job (28:23), and the Aramaic sentence resounds in the heretic question of Richard Ellis (2002), professor of mathematics, and Judaism Studies, '*Whether Torah created God; or God created Torah ?*'.

Meantime, for Jewish Bible believers God is personified in his Torah's wisdom. In this aspect we address to rabbi Neil Comess - Daniels, the founder of one of Temples of "Beth Shir Sholem"(California). In a special Post -Shavuot Torah study on Saturday June 14th (2008) in his Temple, he asserts that in rabbinic translation 'Torah' and 'Wisdom' are often interchangeable.

Rabbi Shimon Leiberman (Jerusalem), underscores that Torah is certainly an example of *chokmah* - an injection of God's wisdom in it, yet Torah has an internal *binah*, i.e. a logical, reasonable extrapolation (Website aish.com, December 30, 2007).

Concerning the quest of Job (28:20), Leiberman suggest that the wisdom come of *nowhere* as she is a potential of creativity due an input of adequate *information*. A ground for the interpretation is the Tanya's (a Chassidic) Kabbalistic work that the Hebrew word *chokmah* or '*koach - mah*' (power of what, Zohar, v.III, 220b), means "potential", that is beyond of our comprehension (Kabbalah series, part 7, Aish.com, May 5, 2008).

The competent biblical scholar in Wisdom literature Leo Perdue suggested that God through wisdom both creates and saves the world(J. Religion, v.76, p.612, 1994). In his another work "Wisdom in Revolt: Metaphorical Theology in the Book of Job" (ISOT, Suppl. Series 112 (1991), Perdue concerned on the riddle of God's responses to Job. He called the attention to Job narratives 38:1 -41:26 as metaphors of a conventional code as an integral part the cultural matrix of religious poetry of Canaan, Mesopotamia and Egypt. The narratives core is a struggle of God's wisdom (Dragon) and Chaos (a Dark), and God's wisdom as a metaphor of Artisan and God's knowledge.

Regarding that Torah, and its Tanakh, believable had been composed by mind elite of ancient Israelis, the holy notion of 'wisdom' in a particular version of Torah, is rather their intuition discovery, though its essence was a particular generalization of thoughts of ancient cultures.

Astoundingly, on the deep intuition of the authors of Tanakh that sensed the

necessity of a supreme agency as God that through his activity, namely his wisdom's machinery the world was created purposefully towards a human being, it "master".

Recently Davies (2006,7) expressed the suggestion that he and other scientists are more immune to attack "the God of scholarly theology as *a wise Cosmic Architect*, manifested through the rational order of the cosmos", that now science actually decode it.

Remarkably, that rabbi Nelson(2005,6), to our surprise, tempting perhaps avoid of the notion "wisdom" so popular in Torah, embodying Tanakh, is forced to admit to Ps. (104: 24) - "... *O God, you made them all (works) with wisdom*". He is humbled by the "wisdom", viz. the beauty of the structure of cosmos. Still he accentuates on an awesome power reflected by our universe, than an evidence of the existence of "wisdom".

The topic of a modern ongoing designing of a natural scripture wisdom book as a second testament, tackled also the noted Danish historian Olaf Pederson ("The Book of Nature", 2002)

On a link of Judaic wisdom of an Emergent god and order of creation likewise discussed Lawrence Troster, a Jewish Chaplain (the Bard College, Cons.). He endeavored to search a modern accord of Judaism wisdom, e.g. with a self-organized Universe and Life and emergent information. In that manner take place a recovery of the wisdom of the book of God towards a quickening genesis of a modern emergence world through the in process at present novel scriptural wisdom (in G. Cantor. M.Swetlitz, eds. *Jewish Tradition and the Challenge of Darwinism*,2006).

Furthermore, he assumed that the Torah/Wisdom served for God as a tutor, and Midrash (at large, a metaphorical commentary of Torah), explains that '*Torah/Wisdom played a role of an architect of the world, and God merely emerged as a builder of an anthropocentric world*'(Beth Shir Sholem, website, June, 2008).

In this context is noteworthy the monograph of Leon Kass, Eminent Professor in the Common and Social Thought (University Chicago), Chairman of the President Council on Bioethics, entitled 'The Beginning of Wisdom: Reading Genesis' (2003; online, 2006). He asserted that the text of Genesis wisdom is a "mirror" of self-discovery of human nature, that does imitates God's activity, and even is his parity, in kind to the modern kabbalist Michael Laitman.

Besides, rabbi Sacks and especially Schroeder assumed that such targeted process towards an origin of life and man is a product of God's wisdom agency.

Moreover, Gerald Shroeder argued that wisdom is the fundamental building block of the Universe, and at the heart of its existence dominate non-physical attributes - information and wisdom ('The Hidden Face of God', 2001).

It is noteworthy also the considerations of Schroeder submitted in his book, and the lecture 'The Science of God', May 22, 2007, at MIT), in which he spoke of a universal wisdom and information that pervades the universe. Every being from atom to human, represent a level of information of wisdom, as well as in cells and in cosmos quasars, lies a deep wisdom encoded in a chain of information.

In his 'Project of Genesis, Day one' (Tothesource, website, March 1, 2006), Shroeder speculated that Genesis 'First day' is to interpret issuing from the beforehand above multi-faceted meaning of Torah, e.g. Genesis. Hence "*Bereyshit*" is conceivable from its deeper meaning - '*with wisdom God created ...*', issuing from analogical meaning of the verse of Ps. 111: 10- "*The beginning of wisdom...*"

In kind with his interpretation the word "*Elokim*" is a derivative of "*EI*" - God as a single entity, and thus "*Elokim*" is reasonable to interpret than an multifacet principal attributes of God, as his metaphors - wisdom and forces of nature.

Thus, the Hebrew texts notion 'wisdom' by the naive Israelite's elite was

intuitively personified with an omnipotent God's acts of creation an anthropocentric world, and currently 'wisdom' transformed in a notion accepted as divine key acts metaphor, and even as a wisdom concept of purposive agencies targeted towards a (self) growth of Universe, and life, e.g. human mind due bio - friend laws.

Noteworthy that in a Massachusetts conference of the United Church of Christ under the topic of "Inclusive Language Guidelines" at February 6, 2005, the ass. professor James Larren discussed the issue of neutral metaphor for God. He argued that such competent metaphor is the scripture's maxim "*Adonai - wisdom*".

Consistently, also father Louis Close compared God to a metaphor of inherent wisdom (Idem. Springer. link Publ. Brill Academy, online, v.56, p.327, 2006).

2) *TANAKH'S AUTHORS INSPIRATIONS OF GOD'S WISDOM; ITS COMMENTARIES*

There is reasonable imagine that the authors of Genesis and other books of Tanakh, were inspired by a sense of almighty God.

Now are recognized that generally inspirations could border hallucinations, hearing voices, that are typical to highly creative and open minded personalities, [inclosing perhaps the composers of the Tanakh] (Helen Phillips, New Scientist, October 29, 2005; Robert Levi, American Physics Society News, September, 2006).

Maimonides too offered certain explanations on the genuine process of inspiration featuring the Tanakh prophets, than such open minded men highly sensible to Divine vision of unusual wisdom in foreseeing what is going to happen. They must had knowledge, i.e. be actually mind elite, and highly sensible to vision, that the God's inspiration or "the Divine communication was made to them, as we have shown, in dream or a vision and through imagination faculty". So "what the prophet heard or saw in allegorical figures"..., "...perceives in a prophetic vision, he considers as truth ...", as "... the truth of that which came to them from God by way of inspiration" (Guide, p.3, ch.24).

On appropriate vision of God's wisdom the authors of Tanakh introduced in various its parts, "because the existence of all things depends on the decree of God's wisdom" (Guide, p.3, ch.24).

So, the *Jerusalem Targum* concerning the verse of Gen.(1:1) - "*In the beginning God created heavens and earth*", the word "created" interpreted as "created with wisdom" (in Rabbi Kalonymos Shapiro "Sacred Fire", 1950). In this peculiar work that tackles with interpretations of Torah, embodying Kabbalah, of the Rabbi in the years 1939 - 1942 at his being in Warsaw Ghetto (till his killing by the Nazis), was stressed that the *sephirah Chokhma (Wisdom)*, is the highest level of human mind whose information is fired to *sephirah of binah (Understanding, Reason)*.

Naturally that the wisdom of mind elite, the insightful authors of the Hebrew Bible, prompted that God's coded metaphorically creative force emergent information blueprint to be guided in the wisdom of the Torah.

In Hebrew Bible the spring of the term of wisdom we find in Proverbs, Job, Ecclesiastics, Wisdom of Solomon. So in the latter (7:25-26), is said that wisdom as an emanation of God than a feminine pattern, viz. "*Like a fine mist she rises from the power of God*", the mediator of creation of the world (Rosemary Ruether, a lecturer at the Claremont School of Theology, and prolific author, including this cited work "The Da Vinci Code", 2007, in Da Vinci Code beliefnet).

The Kabbalah's wisdom rediscovering as a paradigm of the new science, was shared by Gordon Kerry, a philosopher of Religion, in his paper "Worlds Within Worlds" (Zygon, April, p.37, 2002). He showed that the ancient teaching of Judaic wisdom converge with the latest science achievements of a complex self-organizing cosmos with a self-similar pattern seen everywhere. Thus, already from the earliest beginnings of Kabbalah's wisdom were accepted that the co-evolutionary dynamics

of the macrocosmos level of cosmological unfolding are reiterated in a self - similar fashion at the microcosmos level of consciousness. In this light also was offered the essay of M. Marcus a professor of philosophy (the University of Pittsburgh), entitled "Computer Science, the Information and Jewish Mysticism". He argued that information is of a higher level than physics siding the Kabbalah's wisdom teaching that our world is rendered as a dynamic scripture that still in preparation. A person perceivable than a microscopic image of God, is an active participator in the sacred transcription through writing computer programs, and

In Tanakh is mentioned also the hidden parts of God's wisdom, for one in Job (38:36) - "*Who put wisdom in the hidden parts ?*".

3) *THE FEMININE FACET of the BIBLICAL NOTION 'WISDOM'*

The Septuagint already translates the Hebrew "*dabar*", as the creative Word of God which parallels to "*sophia*" (Wisdom)- a mediator in His creation (Wisd. 9:1-2). Furthermore, "*The Wisdom of God - the causal agent of Creation*" (Wisd. 7:22), [that by us could be comprehensible as downwards causality of emergence paths of origin of the Universe and Life].

The Hebrew word of wisdom - *Chokmah*, and in Greek is *Sophia*, grammatically both of feminine genus, and serve for personification of God as its metaphor. Most expressive the figure of a Woman - *Chokmah* is described in the "wisdom of Solomon" (wisdom 7:15 - 8:2;22, 25-26), and Sirach (24:5), Psalm 19 "She" is developed metaphorically as a female symbolic personification of God's very self.

Already Maimonides denoted *Chokmah* as she (Guide, p.3, ch.54).

At present the matter is extensively discussed particularly between the Christian authorities. Thus, the most posted on the website Christosophia.org opinions are concluded that the great spiritual personalities of the West recognizes that God's Sophia, is the feminine symbol of wisdom, the metaphor of God. One of them are from Cynthia Avens, and Richard Zellely essay "Walking the path of Christosophia" (2005).

Similar motives were sounded in the sermon of Rev. Dr. Maureen Kemeza at the Emmanuel Episcopal Church in Boston (September 17, 2006), on the Solomon divine wisdom, a woman personification of God, whose wisdom fashioned all things through whom God creates the world. Hence God's wisdom connects to divine creativity, and encourage humanity's unrestricted desire to know, to discover and understand the world. He backed the apt assumptions by the narratives of wisdom of Solomon 7:15-8:8, and Psalm 19.

Consequently God - she, the giver of life who pervades the cosmos like a mother bird that hover over the primordial chaos (Gen. 1:2), thus expanding the treasure of God's metaphors (Elisabeth Johnson, High Beam Encyclopedia, 1993).

To the point with the modern aspect of "*sophia*"- wisdom tackles the works of the website "SophiaEuropa" in the framework of *e* - magazine of Global Spiral (Metanexus Institute). There was also mentioned the address of Pope John Paul to the Plenary Session on "Emergence of Complexity in Mathematics, Physics, Chemistry and Biology "(1992), that predicated " the dynamic interaction between science, religion, and humanity (i.e. wisdom) is an inevitable alternative in transcending limitation in their search for authenticity".

The symbol of the Goddess of wisdom - Sophia is also mentioned in the work of Angeles Arrela, a Ph. D , and cultural Anthropologist. In her book " The Co - Creation Code Deck" (2003), was touched the wisdom archetype code with whom we can co - create and reveal the elements of the cosmic universe, the maker up the orchestra of creation. The Goddess of wisdom unfolds the code to harmonize

laws of our universe on a base of sacred geometry of latest science.

Striking also the epitomizing commentary of the first verses of Genesis 1 of Gerald Schroeder, former consultant for the U.S. Atomic Energy Commission, PhD in Nuclear Physics and Planetary Sciences of MIT. His version of these verses is that "with wisdom God created the heavens and the earth", that in terms that the wisdom is the basis of information, and "...our universe may be the manifestation of information (Idem. "The Hidden Face of God" (2001).

The Chief rabbi of UK professor sir Jonathan Sacks and his colleague the philosopher David Conway tempted also to rediscover the wisdom, the former in his Faith lectures "Where did we come from" ?, of February 6, 2001 (website Faith), the latter in his book "Rediscovering Wisdom "(2000), through linkage of Tanakh truths, especially Genesis and now- a - days science. So Sacks interpreted the opening verse of Genesis "*In the beginning God bara...* from the perspectives of khokmah, human knowledge and wisdom that resonates as metaphors for modern science achievements. Conway also found parallels of Tanakh allegories and metaphors with modern cosmology predictions.

4) DIVINE WISDOM IS CODED, and IT BOTH a METAPHOR, and an IDEA

In that context is relevant the add the point of Perry Marshall, a Network protocol expert that in a presentation at Lucent Technology (Alcatel - Lucent, Warrenville, Illinois of April 10 (2007). In his website discussion "The Atheist Riddle: Skeptic Attempt to Solve It" (February, 2007), he considered that all information is coded by a Mind (a metaphor of God), or by the coding/decoding machinery of conscious mind of man. Besides the laws of physics and chemistry do not explain the essence of information, as it is a highest level phenomenon that acts as a top - down causality factor.

Marshall defines a "code" as "a system of signals used to represent ideas or plans", and contains pattern, viz. fractals. He admits that these patterns are natural processes as a result of interaction of chaos and fractals "experienced every day".

Nevertheless for most health skeptics God is envisioned mere as an idea (professors of philosophy Hermann Cohen (1902), Roy Abraham Varghese (2004) and Remi Brague (2007), the author of "Wisdom of the World",

Correspondently, the Creator of the world with it innate wisdom is Mind, i.e. God. Analogously Bernard Haish, a noted astrophysicist, and NASA - funded scientist, in his provocative book "The God Theory" (2006), argues that God metaphor is imaginable the notion "cosmic consciousness", the maker of amazing complex structures of the universe and human being.

Besides, in a conversation "What is Code ? the philosopher Jo Powlik defined it as an intellectual heights that through free information's wisdom transform society and its universe environment. Whereas his college, David Berry draw the attention that "code is bifurcated between conceptual and a functional schema, and *all encompassing wisdom code*" (Idem. Kritikos, v.2, p. 1552, 2005).

Marshall (2007) also relates to Genesis one narrative "*And God Said...*", as an evidence that creation is a product of words, and thus the wholly biblical theology of God matches everything that the information science tells us about reality.

To that thesis admitted likewise the noted theologian David Atkinson ("The Message of Proverbs",1994,8), that "the wisdom of God are the heart of God's creativity and purpose for his world".

We imagine also that the insights of Wheeler and Davies on the value of the concepts of closed causal loop, and "retrocausality", embodying a "Life

Principle" and "Mind Principle", grounds the hypothesis of a self - synthesizing world, as a pantheistic nature's wisdom code's principle manifestation.

On the whole the offered extended and explicit review on the comparative aspects of sacred and modern thought on "wisdom" and "wisdom code", could play a role of a common matrix also for other diverse high - level concepts principles of emerge and evolve of universe(s), life and mind consciousness.

Hence the "Wisdom code" includes a Mind, as a metaphor of "God"(P. Marshall), a "Ultimate Principle" as a metaphor of God (N. Short), the principle of Ultimate Reality (Neil de Grasse Tyson), "Life Principle" and "Mind Principle" of Davies, and other submitted and while undiscovered crucial principles of the Universe and Life.

5) WISDOM MATRIX GUIDELINES GENERATES a 'BREATH FIRE' INTO GROWTH of an ABIOTIC UNIVERSE, its LAWS TOWARDS LIFE, and HUMAN MIND'S WISDOM

A representative literature evidences that the core of wisdom is a purposive matrix generating guidelines for evolve of the Universe, Life and human mind consciousness. The topic "Wisdom Matrix" on the Google were mentioned 513.000 at February 9 (2008).

"Matrix" is defined as "something within or from which something else originates("The Webster - Merriam Dictionary",1998). Although in our work we prefer to apply the term 'template' - a mold,(a some frame) that guides form, or structure of something.

In a lay language matrix is pictured as a womb originates, generates a purposive object(s). That overlaps with our vision that regarding that wisdom in Hebrew is *Chokmah* - and in the translation in Greek of *Septuagent - Sophia*, both are of female genre, metaphorically is matrix - womb of a mother is capable to birth, "generate" a child, and provides a purposive guidelines for his development, evolve towards clever and even wise human being.

The term "womb" - a matrix as a generator of intelligent mind descended from the idea of Divine Mind of Roy Abraham Varghese, a descendant of ancient Jewish settlers in India from Palestine, Master in Arts and Journalism with a high philosophic overtones, founder of Institute of Metascientific Research, Garland, Texas.

- In his widely acclaimed book "The Wonder of the World: A Journey from Modern Science to the Mind of God" (2004), he argues that the existence of an infinite, intelligent mind is the matrix (i.e. womb) of the modern science and religion. Its prophets were the founders of a reasonable "Theory of Everything" based on the sacral philosophy and theology of medieval giant of thinkers - Maimonides, Aquinas, Madhvacherva and Avicenna, and the icons of the modern sciences - Newton, Maxwell, Planck, Einstein, Heisenberg, etc., the discoverer of "God's Equation".

Eventually Varghese assumed that Everything is intelligence of infinite Mind, viz. wisdom matrix information mapped symbolic (digital), that precedes energy and matter - the vehicles of all information in the known universe.

In an essay on "Spiritual Matrix", Senior Pastor Michael White of a transcultural Tabernacle Church (Lewi'sham, South London), posted by the site of "Tabernacle" (2006), he put forward the notion "matrix" also "as a womb, the initial place that we begin our journey of growth and development". However he propose that in the course of our life, as in the natural matrix, the wisdom spiritual matrix works in a series of wombs at every emergent situation of life.

Professor of mathematics John R. Searle, the discoverer the Laws of Squares, based on matrix factorization (any symbols in mathematics multiplying together form a new product), the issue of wisdom matrix solved springing from

Natural Matrix Law (in G.D. Muir, 2001). A matrix takes the law of random geometry of chaos and placing it into harmonious working balance through its natural laws.

In that discussion Copthorne Macdonald, a philosopher and founder "The Wisdom Page", on - line text of wisdom, in book "Towards Wisdom" (1995), accentuated that "information is the abstract organizing matrix of the universe.

The wisdom matrix is also related to sacral texts and God. So in the book "The Spiritual Matrix" (2006) of Christian Mapes, God imaginable symbolically as an amazing energy and thought forming an infinite world of watery darkness. God within himself hides infinite wisdom and power, from which he created a vacuum of chaotic fluctuation. An spiritual matrix of God's wisdom underlying his force drove the growth of universe and live.

For us was also highly valuable the work of Paul Nancarrow (The Vanderbilt University), a Christian philosopher, that grounded a concept of "*wisdom algorithmic matrix*", that orders all things in the nature and human life, as "*nature naturing*" and "*human humaning*" (Idem. "Wisdom's Information: Rereading and Biblical Image in the Light of Some Contemporary Science Speculations". *Zygon*, v. 37 (1),p.51, 1997).

A similar our estimate got the work of the noted philosopher David Chalmers (The Arizona University), "Matrix as Metaphysics" (J. Philosophy, March, 2003). There he underscored the role of *wisdom natural matrix information* that guide purposefully the necessity of Big Bang start and its evolve in a frame of quantum cosmology in the fabric of origin of the universe. That view overlap with the deliberations of Copthorne Maconald, the founder of website "Wisdom laps" as a long - term expert in the matter of wisdom. He also discussed the notion of "wisdom matrix information than a purposive organizing factor that embody the blueprint of universe building.

The issue of wisdom matrix was discussed from the positions of kabbalah by Joel Primack, a cosmologist, one of co -founders of 'dark matter', professor at University of California, Santa Cruz. In an essay "In the Beginning" - Quantum Cosmology nd Kabbalah (Tikkun, v.10 (1), p.66, 1955, and in his book with N. Adams "The View From the Center of Universe" (2005, 7), considers that the third *sphirat* (transfer channel) of *Binah* (Reason) the womb matrix in which creation expands out of Chokmah, and lead to a post - inflationary expansion of a space-time of the Universe. He assumes that the BB is a matter of 'Wisdom' and 'Reason', in tune with a notion 'Disciplinary Matrix' or paradigm of Thomas Kuhn, the leading philosopher of science of the 20th century. Kuhn considered as a *matrix main attribute was symbolic, a metaphysic feeder of heuristic purposive directives through the growth of the universe towards the human observer.*

Issuing from the reviewed, we suggested for a plausible assumption to introduce a formulation - "God's" (cf. below) metaphor is primordial wisdom, which purposive emergent information algorithmic matrix guidelines generates a self - growth of an abiotic Universe, its adapting laws towards Life and human Mind consciousness.

The offered vision in some sense resonates to John Wheeler's and P. Davies insights, with whose the latter shared in recent essay in Edge(2008), and interviews of (2007). In Edge Davies stressed that he the "purpose" is not very different from "information processing" as the universe is like a computer with a teleological component.

Thus, we accept the *notion "wisdom algorithmic matrix" - organizer of an amalgam of holistic knowledge and humanity, e.g. ethics, of human mind Consciousness wisdom, that frames an evolve of primordial laws of Big Bang - Universe towards bio -*

friendliness. Though our formulation seems as a crypto - religious, its essence is quite rational and expressed in a teleological compressed information algorithm embracing the reciprocated relationships of a system: - God, whose metaphor is primordial wisdom - Universe - bio - friend laws which acme - human mind. The system starts at a time.

In this context is striking the modern interpretation of Richard Ellis (after consultation with rabbi Saul Perlmutter), the opening verse of Genesis - "*B'reyshit*", as "*In his head God will create himself (along with the heavens and earth*", cf. below).

Consequently, the offered interpretation backs our suggestion that God and the Universe starts simultaneously. A proper suggestion of that open -minded Orthodox professor of Judaism and eminent mathematician as Ellis (2002, cf. below), rings both surprisingly and scientifically up-to- dated.

In his turn the noted Israeli kabbalist Shimon Leiberman introduce the notion of *chokmah* - as an injection of God's wisdom in it. Besides, Torah has an internal *binah*, i.e. a logical, reasonable extrapolation (Website aish.com, December 30, 2007).

Astoundingly, on the deep intuition of the authors of Tanakh that sensed the necessity of a supreme agency as God that through his activity, namely his wisdom's machinery the world was created purposefully towards a human being, it "*master*".

In this context is noteworthy the monograph of Leon Kass, Eminent Professor in the Common and Social Thought (University Chicago), Chairman of the President Council on Bioethics, entitled 'The Beginning of Wisdom: Reading Genesis' (2003; online, 2006). He asserted that the text of Genesis wisdom is a "mirror" of self - discovery of human nature, that does imitates God's activity, and even is his parity, in kind to the modern kabbalist Michael Laitman (2003) considerations.

6) SPIRITUAL ASPECTS of WISDOM'S MATRIX/WOMB

Above all is relevantly to draw attention to the cycle of lectures in Kabbalah from that position, delivered by the noted Rabbi Shimon Leiberman (Lecture 8, posted by Aish.com Kabbalah Series, April 2, 2000;). He underlined that from the view that Kabbalah is the philosophy of Torah, the second *sefirat Binah* (reason) process wisdom for the start of the universe from a point, smaller as a mustard seed. In so doing *Binah* serves than a womb for that seed, guiding the mature of the world.

In the same lecture posted by Aish.com of May 2008, he added that that in the womb the potential of seed developed and processed as a deductive reasoning. That is in tune with Kabbalah's definition *davar mitoch davar*, i.e. understanding one idea from another idea, as metaphors 'father' and 'mother'. The undeveloped seed's code of father (primary idea of wisdom) is only a potentiality, that the mother's fertilized in a reasonable idea (*binah*) of wisdom's creatures - the human, the world.

The proper interpretation on the position of wisdom womb (matrix) in creation of the world echoes in the cosmologist Joel Primack's (2005), discussion on apt notions of Kabbalah.

In this context Gregg Braden, ex -aerospace computer designer, computer geologist, technical operation supervisor (Cisco System), in his best -seller book "The Divine Matrix' and Rewriting the Reality Code" (2006), resonated to Planck's notion that a "matrix" of energy is also a matrix for the spiritual world.

Furthermore, Braden underscores that *Planck matrix* in its essence is the *Divine Matrix*, the missing link in our understanding that provides: 1) the content of the universe; 2) the bridge between our imagination and our reality; 3) the mirror in our world to what we belief.

To tap the force of this matrix and recognize its language, we must rewrite

the code of reality. The primordial wisdom matrix was argued too by Jyrki Papinniemi in an essay August 15. 2003, online .

Besides, philosophers also accepted that wisdom matrix organizes the spiritual world integrated within each of us (collab.org/programsservices/conferences/Program/Febr.2004).

Thus, the spiritual world integrates a holistic fuse of knowledge and humanism in a modern frame of wisdom. On that called the attention the Nobelists for physics Isidor Rabi (cf. above), and Nobelist for literature Thomas Eliot. Even the pope John Paul (1992) submitted wisdom as a dynamic interaction between science, religion and humanity.

7) *The MATRIX PRINCIPLE in MONOTHEISM LEARNING*

The religion philosopher Paul A. Rainbow had produced a biblical, theological and historical reassessment of New Testament and found that the Jewish Monotheism served as a matrix generating the principles for the New Testament (Novum Testamentum, v.33, Fasc.1, p. 78, 1991).

Just for such a matrix of sacral text of the Old Testament, as Thomas L. Thompson terms the Jewish Bible, a known professor of the History of Ancient Israelites, and a Chair of Old Testament research (The Copenhagen University). in his book "The Intelligent Matrix of Early Biblical Narrative Inclusive Monotheism in Persian Period of Palestine" (1999). However that work is so impressive that is relevantly to make additional remarks on the discussed issue.

The Hebrew Bible he revised from a critical eye of a skilful, skeptical "minimalist" historian. In that framework Thompson accepted that the essence of ancient Jews was formalized due the priesthood that turned from Persia in the seventh century of BCB. He assumed that the main driving for a new invention of the biblical narrative may have been the advent of Monotheism around 650 BCB which arise as a requirement of a quite different worldview from the earlier polytheistic ways of thinking. That was a great leap forward towards the Jew Christ's teaching.

In tune with Thompson the Persian occupants of Palestine sponsored priesthood under its heads Ezra and Jeremiah who settled Judea to write a sacred history, accepted by the Jews as the Torah (or Pentateuch), together with the Prophets, and "wisdom literature". It is an account of tribulations started at 13th century BCB since the last book of Pentateuch -Malachi - 5th century.

Thompson admitted that the Jewish Bible is no history but rather a sacred testimony, purpose design matrix to inspire and control, an outstanding book of purpose. Thus Babylon nurtured the Jewish Priesthood, and the leap of polytheism to Monotheistic Judaism.

An another thoughtful work also submitted to the term matrix than a bridge between science and religion in the framework of Judeo - Christian Monotheism's God was of Roy Abraham Varghese, also cited above.

8) *GOD'S-WISDOM PURPOSIVE AGENCIES GENERATES ANTROPOCENTRIC WORLD*

Some philosophers, computer experts, mathematics, etc. submitted another facet of our reality and underlying its laws.

The most deep analyzer of Proverbs, the original source of wisdom of Tanakh, that explicitly tackled with its function and target, was David Atkinson, Archdeacon of Lew'sham, and ex - Chancellor and Missioner of Southwark Cathedral, and an editor of the "New Dictionary of Christian Ethics". In his "The Message of Proverbs" (1996, 8), convincingly show how wisdom, God's activities personification attributes purposefully addressed to the human beings of an anthropocentric world

for their survival. Above all that is through God's word commands information guides creativity to overcome the primeval chaos towards ordered growth of the Universe and its laws fitted for life and its "master" - human being's mind wisdom.

That commentary of Atkinson backed two major our positions: 1) God's acts, whose metaphor is primordial wisdom, purposively due its agency - information lead to an anthropocentric world; 2) the position 1) is the inspiration imagination of the authors of Proverbs, viz. of Tanakh.

Copthorne Macdonald the founder of website "The Wisdom Page", a compilation of various on - line texts connecting Wisdom, a philosopher and science writer, in his book "Towards Wisdom" (1995), argued that information of wisdom is an organizing matrix, the organizing principle embodied in the blueprint of the building of wisdom. Thus, the information theory is the matrix of wisdom building.

Whereas Joseph Campbell (1904-1987), an American professor of philosophy, accentuated on the role energy guided by the entire matrix of natural law, the universe - like giant lump of rising dough acquires form.

On the essence of Natural Matrix Law more explicitly unfolded John R. Searl, the eminent professor of mathematics and computer sciences on the website of G.C. Muir's 'Natural Matrix Law', which discusses the various applications of magic squares utilizing mathematical matrix laws ratios. Remarkable that Searl was the father of Laws of Squares that confirm exactly the Natural Mathematical Law and thus the Matrix Law. In terms with the Law a Matrix is a symmetrical block of cells that go into creating a matrix, e.g. cells equals a matrix. Besides, triangles forms the geometry of Earth Matrix.

Searl as a prolific author on this website explained his thoughts how the universal Creator (a metaphor of God) in infinite wisdom created all that is throughout the cosmos. He suggest that the universe is built with a mathematical preciseness, grounded up on natural mathematical laws. More detailed in the creation of the universe was used a geometry of random chaos placing it into harmonious working balance through purposive Natural Laws of a Matrix. This takes place through tiniest wavelet fluctuation of a single atom, right up to the work of planets, galaxies and universe, all linked in precision harmony within the vastness of cosmos. Such matrices of the Natural Law is usable in fractal mathematically constructs.

The Natural Matrix Law can also be applied to everything in our 3D Universe, and that Matrix Law offers strong evidences in support of some of creative intelligence type, that perhaps literally places God (i.e. wisdom) into a scientific equation of balanced systems?

9) RETHINK of the NOTION 'WISDOM'- a FUSE of PHILOSOPHY, MODERN KNOWLEDGE, HUMANITY

As was drawn the attention the last time revived interest to the general aspects of wisdom in science, especially cosmology, philosophy and humanity. So the topic "Wisdom and Modern Cosmology" was registered in Google 488.000 times.

Is acceptable that the pursuit with wisdom is embraced in the notion "philosophy".

Above all it is concerned with a fundamental international project of "Renaissance *der Weisheit* of Wisdom", which co - founders are 32 outstanding scientists and philosophers, that it prepared and propagated since 2004, in a frame of the "World Community of Ideas". The Project results should be published at 2008, under the "Foundation of World Cultural Heritage of the Wisdom Teachings". On the fundamental value of the issue "Renaissance of Wisdom", evidence some following invited topics: - "Wisdom pervades 'All With All',

philosophies, religions, cultures"; - "Wisdom as an Immanent Principle in Nature; - "Wisdom and Science In a Dialogue Towards an Integral Vision of Reality"; - "The Renaissance of Wisdom: (The Emergence of Planetary Consciousness Wisdom Towards a Truly Human Way of Fundamentalism").

The pertinent project is a follower of a project of thoughts of outstanding personalities of the world selected in a "Compendium of Ancient and Modern Wisdom" (1994, 2003) related to a generalization of ideas of towering personalities, as follows: - Spinoza, "the foundational principle of wisdom is to have a long term perspective, though the total is possessed only by God of nature"; - Max Planck, a theist, the discoverer of the notion quanta, "All matter originates and exists only in virtue of a force, behind this force - *the existence of a conscious and intelligent mind of wisdom. This Mind is the matrix of all matter*"; - T.S. Eliot, Nobel - prize for Literature, "In the, huge common information, we loosed wisdom. We need wisdom". "Wisdom is the proper use of knowledge, more precisely, wisdom is knowledge that has been applied in a way that takes into account all its pertinent relationships. Knowledge alone beyond wisdom can deceive; - John Morrison, "Knowledge comes by taking things apart, i.e. by analysis. But wisdom comes by putting things together"; - Walter Lippmann, one of the most authoritative journalist, "Wisdom plans us in our proper roles in relationship to everything else around us".

Related to the Project is another international undertaking - "Wisdom Worldview Award", that will be granted for efforts to benefit humanity. The "Award" will be given to 25 illustrious personalities. Among the nominee is Abadiah Harris of the Philosophical Research Society for the commitment to providing thoughtful deep analysis of world wisdom literature that tackled for answers to the great mysteries of the notion "What is Wisdom" and "What is Law". The recipients will offer message to broadcast. The organizer is Wisdom Media Group (ww .wisdommedia. com), a multi - faceted media company committed to bring an ethical and reliable source for information and programming content for mind, spirit and its product wisdom. The publisher and managing editor Cliff Feigenbaum.

In this context is also to point out on the "Projects of the School of Wisdom", that was founded by Count Hermann Keyserling in the 1920s, and continued by his son Professor Arnold Keyserling of the Academia of Art, Vienna. In this "Projects...", v.3, was tackled the "Laws of Wisdom: A Holistic Synthesis of Science and Religion". By the way, in v.2, ch. 9, of the "Project", he discussed the problem of the human computer through the results of a fractal game of wisdom cards (1994 - 1999). Then followed a volume "Fractal Chaos: A Fractal Theory of Origin and Meaning of the Universe" (1995 - 2002).

Nevertheless, the most authoritarian and ardent propagator of the modernized notion of wisdom is the representative international multi - facet institute "Metanexus" with his electronic magazine "Global Spiral", that was founded in the end of 1990s by I. Grasse. One of its co - founders Eric Weislogal in a work "Where is the Wisdom We Have Lost in Knowledge" (Global Spiral, April, 2007), claims that under the Metanexus main *idea wisdom* are united foremost scientist, philosophers, theologians, culture personalities and so on. They are the actors of various conferences, symposiums and other versions of discussions as was the symposium "Science and the Ultimate Reality" of March 13-15 (2002), dedicated to the honor of John Archibald Wheelers 90th birthday, that took place at Princeton, under the leadership of P. Davies. That multi - scientific, - theological and - cultural forum's works were published in 2004, entitled "Science and Ultimate Reality" (P. Davies et al. eds.)

Weislogal call the attention that main tools of science is analysis and

measurement of observers, whereas often the decisive role in solving of varies "big questions" is addressable to *wisdom* ability for synthesis and integration of all the knowable into some sort of vision of the whole for getting the "big picture".

In this aspect Metanexus promotes construction of a "communal pursuit of wisdom" for addressing to challenge the most profound questions of our reality.

Accordingly, the Institute make for a renewed quest for wisdom in 'harmonizing' of knowledge, and provide to science overtones of wholeness, something 'symphonic', serving as bridge among science, theology, spirituality and culture.

In that tune was also the essay of one of prolific authors of Global Spiral Vaderaja Raman, in which he also argued that the philosophy of Holism render a whole picture more deeper than only a logic analysis of its components. The first order information is the base of emergence wisdom (Global Spiral, February 15, 2005).

On Emergent Wisdom as a transtheoretical model deliberates also likewise Jean Kristeller (Global Spiral July 2007).

An another now riding high website "Natural Genesis", under the management of the philosopher Arthur Farber, and all coauthors of its 1500 entries, that rediscover wisdom all around.

One of the latest projects of study the modern aspects of wisdom initiated by the University of Chicago sustained by Templeton foundation. The project is announced <http://www.wisdomresearch.org> by the Arete Initiative in November 19 (2007). The Arete Initiative that run under the appeal "Defining Wisdom" is pleased to encourage young scientists around the world to research the modern aspects of wisdom for understanding its role into nature, and the benefits for our live. The project is addressed to scholars from institutions around the world with Ph.D. for starting to research the role of wisdom into nature, embracing the cognitive and social neuroscience, being granted for two years research with a grant of \$100.000. The blueprint for offer a full proposal of such research is February 1, (2008). It will granted 20 analogous proposals (posted by Mike Kruge and Yoram Bauman to a site "Improbable Research", January 21, 2008).

The principal investigators of the project are John Caciooppo, the Tiffany & Margaret Blake Distinguished Service Professor in Psychiatry, and Chairman of Faculty of Psychology Harward Nusbaum of the college of Chicago. He explained that "at one time wisdom was regarded as a subject for the most rigorous and sophisticated methods of inquiry. However, wisdom is currently overlooked a neglected as a topic for serious scholarly investigations.". The Arete Initiative suggest the most highly original, methodological rigorous project from a broad range of disciplines - neuro-psychology, genetics bits, computer science, quantum physics, cosmology, philosophy, theology, religion, ethics.

One of smart researchers of the notion *universal wisdom* from the stand point of mathematics is Gregory Chaitin, at the IBM Thomas J. Watson Research Center, the co-founder with Andrei N. Kolmogorov, the field of algorithmic information theory ("Information, Randomness & Incompleteness, 1990; Meta Math: The Quest for Omega", 2005:"The Limits of Reason", Scientific Am.. March, 2006). He found a specific, a well - defined number that does not calculable by any computer, that avoids hopes to reveal a complete, all - encompassing mathematics that would serve as a evidence that a suitable fact is true for a reason.

This lead Chaitin to an inference that the wisdom contained an omega is real, ever so forever it is hidden from us by the limits of logic and the paradoxes of self - reference. Interim, Charles Bennett, one of the top experts in

information theory, and chief of CMB project, is tuned positively poetic in relation to the mystic, kabbalistic significance of Omega.

P. Davies (1992, 2001) in turn like Chaitin perceived the Omega from the province of cabalistic number. One can know on an existence of such number yet it is does not reasonable, as some secret word of wisdom.

10) TANAKH'S METAPHORS HINTS on a PURPOSE PRIMORDIAL WISDOM'S CONCEPT'S AGENCIES of SELF-GROWTH of an ABIOTIC UNIVERSE, its BIO-FRIEND LAWS TOWARDS HUMAN MIND'S WISDOM

Noteworthy, the unnatural fine-tune of evolution of the Universe towards life and its 'crown'-human minds consciousness. In this process is apparent the *purposive* principle. Above all, in Genesis 1: 1-30, its authors mind's wisdom intuitively caught an insight that a stepwise creation of the world eventually is addressed to a man, as a unique its perceiver and even "*master*".

The expedient holy text of Torah's wisdom targeted towards a birth of man, as its central point, were extensively interpreted in the works of Jewish medieval sages, particularly of Maimonides, and in the classical commentaries 'Soncino' on Genesis, 1956).

Only to the end of 20th and start of 21st century the teleological principle of origin of Universe and life once more was brought in the forefront of discussions.

The main advocates for that principle were: Einstein, the chief rabbi of UK Sir Jonathan Sacks, rabbis Lawrence Troster, professor of religion at Bard college (NY), David Nelson, Michael Laitman, as well Nobelist Eli Wiesel, professor in Judaism Richard Ellis (Massachusetts University), Gerald Schroeder, PhD, computer expert David Gelernter (Yale), top scientists David Bohm, Stuart Kauffman, Paul Davies. Jan Ambjorn et al. (professors of Utrecht and Krakow Universities).

They insisted that the universe and life were purposefully built by increasing complexifying due *wisdom, energy and information*. In that framework the group of Ambjorn developed a promising "Causal Dynamical Triangulations" theory of a self-organizing quantum universe (Scientific Am., July, 2008).

Thus, we imagine that concept of wisdom, along serving a metaphor of God, also symbolize an incorporation of a purposive machinery of (self)complexifying of Universe, its laws bio-friendliness for Life and human mind consciousness. The suited agencies, imaginable, are etched in a template/matrix of Big Bang - primordial Universe.

The pertinent God's (iG) - wisdom's concept, one of main agencies - information density 'mature' with the aging of the universe, and hence its guidelines for evolve of adequate laws gradually works more accurately.

Davies (2007) extended the proper idea of shaping reality even at birth of Big Bang - Universe, than a 'teleology without teleology', related to developed by him a set of notions respectively beyond a Divine agency. He argues that the concept of a universe is just a teleological one, as it is destined to bring forth life and observers. And the experimental data on a reality of backward causation offers a quasi-respectable scientific path to such teleology.

To the point he already in 2004 conceded on a meaningful "purpose through emergence complexity" ("In Whom We Live and Move, and Have Our Being", P. Clayton, A. Peacocke, eds, 2004).

The term "Teleology", is a philosophical notion that define a sort of final cause or evolutionary directionality in the universe, that usually concerns to theology.

Davies underlines that he feels comfortable due connection of the notion 'meaning' and 'purpose' with 'information processing', regarding that the universe is like a computer. Consistently he see reasonable to apply a 'teleological component in

the evolution of the universe'(Salon.com, July 3, 2007).

The issue of teleology regularly was discussed by Maimonides and other our sages from the point of God's will purposeful acts. Davies admits teleology, i.e. final causality 'is taboo in orthodox science, although regarding that our Universe's final purpose to bring forth life and its observers is rigorous teleological, as the latter through retrocausality shape even the primordial reality for bio - friendliness.

The notion *teleology* is introduced in modern physics mainly by Wheeler and Davies, albeit its spiritual overtone, is the same as for overarching emerging principles of "*life and mind principles*" etched in Big Bang - Universe than a guideline for an evolve of Life and human beings consciousness.

The apt as though not scientific, rather metaphysical notion, is an urged necessity, while does lack a testable theory where does the laws of nature come from? Davies even claims that still in science not all is rigorously proved, and thus science are built on faith, as in religion (The New York Times, November 24, 2007, Edge, 2008).

We sprang from the admission that a competent holistic, multi -faceted doctrine of wisdom could play a bridge between the Torah's, e.g. Tanakh's and Kabbalah's wisdom motives of creation, and the modernized wisdom conception. Consequently, reasonable to set forth a heuristic idea of wisdom as a metaphor of God - a central creative force of high level purposive emergent information guidelines for a start and evolve an abiotic Universe, its bio - friend laws oriented to life's culminate - the human Mind.

At heart, the Hebrew text on God's Torah wisdom as a purposive anthropocentric creation of the world, are both an intuition/ inspiration insight of an naive Israelite elite, and current thinkers mind's consciousness wisdom discovery.

Thus, we offer a concept of a primary, archetype of purposive wisdom that could play a bridge between the Torah's, e.g. Tanakh's and Kabbalah's insights of creation of the world of ancient and medieval Jewish sages, and the modern human consciousness wisdom, a view of some renown scientists and theologians (cf. below). They bore up that human mind shapes laws of (self) complexifying of existing entities.

An analysis of adequate literature dared us to treat the matter of purpose in the growth of Universe and life, as the core of God's wisdom activities guidelines.

Consequently, we offer: 1) a primordial wisdom as a metaphor of God's activity, an integrative notion embracing knowledge, humanity and social ethics; 2) a primordial conceptually wisdom of purposive agencies for a self - growth of an abiotic Universe, and its laws towards bio-friendliness for self - growth of life and its top complexity - human mind consciousness.

The submitted primordial purposive agencies are: 1) ENERGY MATRIX; 2) INFORMATION MATRIX GUIDELINES

PART TWO. ENERGY MATRIX of CONSERVATION ENERGY, ITS CHANGES EQUATIONS - DRIVERS of SELF-ORGANISATION of the UNIVERSE and LIFE

1) THE NOTION MATRIX/TEMPLATE; EQUATIONS of CONSERVATION ENERGY, and ITS CHANGES

Above all some notes on the terms 'template', and 'matrix'. The former is defined as a 'mold or pattern that function as a guide to form or structures being made' ('The Merriam - Webster Dictionary', 1998). Hence the term 'template' we understand as a frame guidelines for shaping a process.

Whereas the term 'matrix' is explicable as an enclosure within which:
1) something originates (that came from Latin for womb); 2) a formative tissue for

natural objects. Besides, Matrix in English means a mold or framework for shaping.

Consequently, though in the work we use 'matrix' or 'template' as quite synonyms, for us the term '*template*' is more helpful for explaining the offered ideas.

In our view primordial energy is the driver of all in the world, and thus is one of crucial pillars of matrix of energizing the growing of Universe, life and human mind, embraced in a concept wisdom - a divine metaphor.

We were very encouraged and benefited by coming across the essay of Max Planck, the legendary theorist of quantum packets of energy, that now are defined as "packets of probability", in virtue of which he became a laureate of Nobel - prize.

In the essay entitled 'The Philosophy of Physics' (1936), Planck wrote "All matter originates and exists by virtue of a *force* (energy). We must assume behind this force the existence of a conscious and intelligent Mind. *This Mind is the matrix of all matter*" (and obviously of energy).

In that context is striking the works of the renown mathematician Dr. Amir Aczel, a professor of History of Physics (Bentley College, Massachusetts), and the executive editor of Discover magazine Corey Powell, that argued that the equation of CC, called Lambda, are God's equation of energy that governs the universe. So, Aczel in his book "God's Equation: Einstein's Relativity and the Expanding Universe" (2000), claimed the triumph of equation of CC, the grounds of conservation of energy in world events, and merited it as 'God's Equation'. That is a fair appraisal regarding that General Relativity equations guide the behavior of the universe as dark energy from the birth to a possible future.

The race of glorifying Einstein's CC - Lambda caught Powell, acknowledging Einstein's genality in discovery the apt primal force - a governing guide for the evolve of our Universe. Appropriate validation led Powell to title his best-seller "God in the Equation: How Einstein Transformed Religion" (2002,3).

He also evaluated the believe of Einstein that a cosmic spirit vastly superior to the spirit of man, that is manifested in the laws of universe and named the spirit Lambda - CC, a force that dominate in the universe, and mitigate the inward pull of gravity in a guise of a dark matter, that bring order in the universe.

The appropriate thought of Powell is reasonable to complement with our contemplations that to the cornerstones of a energy matrix is relevant also to add the famous Einstein's equation $E=mc^2$, an eventual machinery of CC, as a modulator of various forms of the constant energy, e.g. mass/matter (conserved energy).

Incidentally the famous Einstein's equation $E=mc^2$, is qualified than the 'greatest equation in physics' (R. Lasky, Scientific Am., April 2007). Simon Singh, the author of the book "Big Bang, a History of Cosmology" (2005). and in Physics World, September (2005), like we ranged the equation $E=mc^2$ as God's equations, regarding its crucial role in mediating various forms of energy, inclosing mater.

Eventually, in that issue of primordial energy, the opening notion of Genesis - "darkness" ('dark fire' energy of Maimonides) transforms in modern Einstein's equations of CC-Lambda constant primordial energy of expansion of Universe. - Consistently, to the considering of Dr. Ken Mellendorf, a physics instructor (Illinois Central College, in "Ask a Scientist: Origin of Energy", 2006), at present as a trigger of origin of energy could serve chaotic quantum fluctuation, or even primordial energy - matter interacting complex, expressed by Einstein's equation $E=mc^2$.

P. Davies (2006,7), and Jan Ambjorn et al. (Scientific Am. July, 2008), also call the attention to primordial quantum fluctuation.

_ Remarkable, that Stephen Hawking, the legendary "heir" of Einstein, in his R. Oppenheimer Lecture in University of California, Berkeley of March 13 (2007, UC BerkeleyNews), spoke of his with Jim Hartle theory of spontaneous eternal quantum fluctuation of bubbles of steam in boiling water of an alternative universe.

_ Still, Hawking deliberated that ultimately by combining the equations of General Relativity Theory, viz. Cosmological Constant (CC) with quantum fluctuation, would be the solve how the universe started. At present almost exists a consensus that the law of conservation of energy encompass also a conservation of angular momentum, viz. spin and information (S. Lloyd, 2006, P. Davies, 2006, etc.).

_ The point of Seth Lloyd(2004,6) , a top expert in informatics, is also that the universe is governed only through the derivatives of the equation $E=mc^2$, namely energy and information, which vehicle is light photons. He along with Davies (2006,7), considers that kinetic energy of particles powers all processes in the Universe and life, encompassing quantum fluctuation.

_ The result of analysis of aforesaid data and other up-to-dated literature, permitted us to assume that an interwoven energy of a CC and quantum fluctuation, are the source of primordial energy and the imaginable drivers of the growth of Universe and life.

That competent conserved primal energy, along with Einstein's famous equation $E=mc^2$, the regulator of world's energy, became sacred metaphor of God's agency, in our case - a pantheistic one.

-- Thus, the holy texts God's agency - energy, transformed in a modern guise of Einstein's equations of a discovered God value, manifesting a some feedback circle of transformation of the ancient sacred notion of God, in modern sacred God agencies.

2) GENESIS METAPHORS of ENERGY PARALLELS 'ENERGY MATRIX/TEMPLATE of CONSERVATION ENERGY

We also beforehand that the medieval top interpreters of Genesis Rashi (? 1040-1105), and classical commentaries of 'Soncino' (1956), assumed that the events pictured in Genesis (1:1-3) doesn't rendered in its strict successions and sounds as a general declaration. The Anglican priest Keith Ward(2008) sides the view.

Rashi emphasized the key role of the Hebrew word "*shomaim*", i.e. "*sho*" - carry, "*maim*" - water. He also showed that the first two letters *sh* complemented with a prefix "*e*", forms the Hebrew word "*esh*" - "fire". Hence, in accord with Rashi in the beginning God created *shomaim*, heavens from fire, and water(s) as an ocean that cover the entirely earth (Tanakh, Genesis, Gesher Ha - Tshuva, ed. Jerusalem, in Russian, 1990).

Maimonides, issuing from Deut.(5:20-21), interpreted "*darkness*" of Gen.(1:2) than a metaphor of 'dark fire' or 'fire' element(Guide, p.2,ch.30).

Stemming of Gen.(1:1-3), is reasonable suggest that the world started from "*darkness*", an energy of *dark fire*(Deut.5:20-21), and only then come the first command's information "*Let there be light*", *the optimal transmitter* of information owing to own energy vehicle - electromagnetism (laser waves). Consequently, *information started after creation of energy* !

Credible that the holy text's machinery of creation of the world, is a complex of immense dark fire and light photons, transformed in modern cosmologists view, as an huge energy for blasting a speculated cosmic "egg" of singularity in Big Bang - universe (Davies, 2006,7).

Although initially the Universe was void and unformed, consistently to Schroeder (2001), God created a raw material - "dark energy soup", fire element of Maimonides (Guide, p.2, ch.30). The former provocatively it likes to a "super - black hole", the

energy of Big Bang explosion and maker of 'grape seed universe. He also underlines that just at day one the world was filled with energy and liquid water, the obligate attribute for life, the building blocks of the Universe.

In our view primordial energy is the driver of all in the world, and thus is one of crucial pillars of matrix of energizing the growing of Universe, life and human mind, embraced in a concept wisdom - a divine metaphor.

Consistently, to the Law of conservation of energy it doesn't created and destroyable, even so in Genesis was announced on creation of a primordial energy that credible became conserved.

_ Hints on a relevancy of such suggestion is that Hebrew word *barah* of creation in Gen (1:1), interpreted by Maimonides as creation of nothing. Hence from the first moments of creation emerged an energy source that was constituted as an eternal attribute of the Universe and energizer of primal, universal information. A further metaphor descends of Gen.(2:1) - "*The heavens and the earth were finished, and all their array*". Consistently, authors of Genesis through suitable metaphors predicated on a finish of Creation and underlying building factors - energy and matter.

_ The Law of conservation of energy and mass by some way parallels Isa.(40:26) - "*... Not one fails to appear*". Moreover, the word "*Not... fails...*", in Hebrew sounds more exactly in Nehemiah (9:6), as "*mchayeh*", that means to keep from decay or preserve. In tune to that Hebrew word is "*preservest*" in its English translation of the Holy Bible (HB).

_ Such bold interpretation of ancient authors evidence on their amazing intuition wisdom. That can serve as a naive hint on a believable role of God's unique wisdom creative power - energy, or in our view - a wisdom's concept matrix of energy, pushing purposive information that guide and propel the world, above all, in its abiotic era.

_ A counterpart of that Tanakh metaphors could serve it transformation concerned with the modern fundamental equation $E=mc^2$, an interchange of energy and matter under the guide of a constant of light flow. *A genuine Godlike equation ! Striking that in the same first creation day the central energetic source was mentioned light, i.e. the 'C' of the offered above equation, the constancy of light velocity's energy, that in some sense is in concert with the Law of conservation of energy. Remarkable, that holy text cue transformed in cornerstones of modern cosmology.*

_ Thus, our primordial integrative wisdom's concept essence above all is a matrix of energy (or 'energy matrix' of the Esalen Center for Theory and Research, 2002), a template with inscriptions on origin, conservation and regulation of energy in the world.

Whereby arise a bridge between leading motives of Hebrew Holy Scripture - God's power, energy, and the grounds of the latest view on energizing of the Universe and Live.

3) QUANTUM COSMOLOGY'S BASE-QUANTUM FLUCTUATION;ITS OBSERVER-HUMAN MIND'S WISDOM

The starting point for a concept of quantum cosmology is the called Wheeler - DeWitt or quantum constraints equations, that define quantum states permissible to relate to the whole universe. John Wheeler already in the 1960s considered that the fuzzy regularities of quantum uncertainty leads to an opportunity of replacing the infinite singularity of space - time with something more complex. Notably, different quantum states of the universe as a whole bring about different results descending from different choices. Moreover, by such application of quantum physics to the universe than a whole entity, suppose an embody of any observer. On that point

most convincingly argued Andrei Linde that without introducing an observer the universe is dead, which does not evolve in time (in *Science and Ultimate Reality*, J. Barrow et al., eds., 2004).

Issuing from the modern concept of quantum cosmology concept Davies (2006, 2007), insists that the universe engineered its own observer, that discover the fuzzy laws that popped from the chaos of quantum Big Bang (cf. below).

Generally is accepted that quantum cosmology is the application of quantum theory to the universe as a whole (C. Kiefer, *Institute Theoretical Physics/ University Koln, Annalen der Physik*, v.15, p. 316, April 3 (2006).

Sean Carroll, a theoretical physicist and astrophysicist (Caltech), and his colleague Jenifer Chen conceded that even empty space has energy than vacuum energy, e.g. dark energy, gently fluctuating towards a big fluctuation. That launch a spontaneous inflation, but either forward or backwards in time (arXiv.org/hep-th/0410270).

An interesting view on quantum cosmology, embracing the start of Big Bang offered Julian Barbour, an emeritus professor of physics and renown expert in theory of time, a Platonist and pantheistic. In his best-seller and smart book "The End of Time: The next Revolution in Our Understanding of the Universe" (1999), he spoke of a Platonist universe (Platonia) built of triangles, with a start point (Alpha) and without an end point (Omega). Quantum creation began than while mystical quantum gravity at the Alpha point, that works throughout the universe until now. In that case he envision Alpha as a metaphysical "spark in eternity".

Issuing from the posit of Linde and other illuminated physicists (Hawking) of an existence an eternal quantum fluctuation, were offered various scenarios of the origin of the universe, that most of them leads towards multiverse concept. One of them offered Martin Bojowald (Institute of Gravitation and the Cosmos at Pennsylvania State University). His concept replace the Big Bang (BB) in a 'Big Bounce' in two versions, as an inherent 'Big Bounce'; b) as a 'Quantum Superposition' or extreme quantum fluctuation (*Scientific Am.*, October, 2008).

Strikingly, that now is confirmed that the space-time matter is merely a vacuum fluctuation of protons and neutrons innumerable components - quarks and gluons. Stephen Durr's team of the John von Neumann's Institute for Computing in Jülich, Germany, applying the method of lattice of Quantum Chromodynamic calculated that these tiny elementary particles - quarks are involving a matrix of more than 10.000 trillions number, that no computer on earth could store such a big matrix in his memory. The fluctuation of that virtual quarks and their glue - gluon that steadily randomly grouping into existence and disappearing again, exert an energy inducing the mass (as conserved energy) of matter's main components - protons and neutrons (Durr's interview to *New Scientist*, November 20, 2008).

4) QUANTUM COSMOLOGY MATRIX PURPOSIVELY GUIDES CONTINGENT ORDER

Matrix quantum theory was discovered by Werner Heisenberg already in 1925, and it equivalent - the wave mechanism by Edwin Schrodinger (1926). At first, it seemed that they had discovered two entirely different schemes, that miraculously gave the same results, but quite soon Schrodinger established their equivalence.

However, the term quantum matrix density introduced the Nobel laureate Lev Landau in 1977, and in quantum mechanics is definable as an infinite dimensional, that describes the statistics of a quantum state. That approach is applied in preparation history of uncertain state, and one does not know with hundred percent certainty on a pure quantum state in the systems of entanglement between two subsystems in analysis of quantum decoherence (Wikipedia).

Recently was held a conference on "Matrix Factorization in Physics and Mathematics", organized by Caltech and CERN University, Mainz in May 11 (2007). The reports evidenced on the relevancy of quantum matrix in current theoretical physics (singularity theory, scale relativity, brane world scenarios, etc.), and mathematics (representation theory, knot theory, fractal geometry, algebraic geometry, fractal matrix).

To the point Quantum matrix was also applied for revealing quantum physics in the framework of our participatory universe, and role in it our consciousness (Rafael Kellman, posted by on line Charityfocus.org, October 23, 2004).

Along a scope of works on the problem of quantum cosmology, where is discussed the matter of chance and choice, related to quantum processes, we found some *essays concerned with wisdom matrix of quantum cosmology that purposively guides a balance between chance and necessity.*

One of them is the respectful philosopher and expert in computer science David J. Chalmers (Arizona University), that offered an issue "Matrix as Metaphysics" (J. Philosophy, March 2003). There along to other issues, as "a computer hypothesis", he discuss the problem quantum cosmology in the fabric of origin of the universe and the role of wisdom natural matrix information that guides purposively towards the necessity of a Big Bang start and its evolve.

From the same realm is the work of Cophthorne Macdonald (Zygon, v.29, p.135, 1993; Towards Wisdom, 1995). He argued that wisdom matrix information is the purposive organizing factor that is embodied in the blueprint of a building the universe, the world of unformed random stuff to a necessary form.

On the core of growth of the universe and life as a some quantum cosmology process governed by uncertainty amalgam of chance and choice (J. Wheeler) or contingent order (P. Davies), with steadfast purposive tend towards an increase of complexity and teleological order, may evidence on a working agency like a matrix.

In a some sense with the aforesaid posits on a purposive evolution of quantum cosmology through chance and necessity coincides the research of Lee Smolin and his school of the Perimeter Institute (Canada), Stuart Kauffman (Institute Biocomplexity and Informatics, University Calgary), and Rev. Sir John Polkinghorne.

5) QUANTUM COSMOLOGY UNCERTAINTY LIMITS DIVINE ACTS

In the referred above works of John Polkinghorne, Robert Russell, Christian Isham, Stuart Kauffman, Paul Davies, etc. were discussed the problem of quantum cosmology in the light of uncertainty concept that limits God's activity, that in accord with their view on the quantum physics paradoxes.

Ever so they indirectly, and some also mentioned above scientists admits that just for balancing the proper God's limits to guide the future of the world, is imagined his activity metaphor - wisdom's matrix. Due such matrix agency - emergent information purposive algorithms are directed a contingent order towards a bio - friend Universe.

One of most ardent herald of the appropriate views is the outstanding quantum physicist and now the big thinker Rev. Sir Polkinhorne, shared in his works of 2006-8. His present original ideas on quantum cosmology is related to God's self - limitedness, allowing the world to evolve in a some libertarian state. That took place through chance and necessity towards self - perfection of the ordering of universe, life and particularly the human consciousness ("Quantum Theory and Theology: An Unexpected Kinship", 2006; interview with Krista Tippett on the website "speakingoffaith.org.", 2008).

Polkinghorne as a critical realist envisioned that God is not a puppet master

taken a risk of act in a quantum uncertainty reality that leads to a self-limitation. Thus quantum creation is more like an improvisation, than the performance of fixed score that God wrote in eternity accepting the issue not knowing the future. Consistently "God allows epistemology (accordingly natural laws) to model ontology (theology). God has an opportunity react only to the way history moves.

Consequently, Creation started from the narrative "Let the be light", i.e. an energy that move an input information into chaotic systems, respectively God works in a top - down manner via information. Nevertheless, God "condescends to engage truly with the time creation" (Polkinghorne).

The next more outstanding representative of the modern school of critical realism of a limited divine activity in the condition of quantum cosmology from the view of natural sciences is Robert John Russell, the founder and director of the Center for Theology and Natural Sciences, Professor of Theology and Science.

In one of his score of works "Did God Create Our Universe?" (New York Acad. Sc.,v.950,p108, 2001), he admits that quantum processes created by God leads to a quantum cosmogenesis. In an other essay Russell argued that that God acts ubiquitously in nature due all the laws of nature ("Quantum Physics and Divine Action" (2004). There he overlapped with Polkinghorne posit that God acted in a non - interventionist way but as a top - down agency in the process of self - complexity of the universe . In so doing God in a condition of a quantum contingency promotes rationality. Thus God not violate the laws of quantum physics but acts in accordance with them. The submitted positions of Russell were additionally underlined in a series of eminent philosophers in a collection entitled "God's Action in Natural World"; essays in honor of Robert John Russell, 60th birthday (2006).

In Russell's recent work "Cosmology: From Alpha to Omega" (2008), are summed his aforesaid constructive natural theology views, especially related to divine limitedness in the creation of the world due quantum cosmology contingency.

Actually the founders of that constructive theology were the philosopher Ian Barbour and the brilliant theoretical physicist Christian Isham. The former deliberations were epitomized in a book dedicated to his "Fifty Years in Science and Religion". In apt work has been appreciated his contribution as a critical realist in quantum cosmology, which quantum events were necessary as a non - interventionist approach of divine actions, one of them was Big Bang's infinite set of oscillations towards growths of the Universe and Life, e.g. it human observer.

As a devout Christian Isham's book "Creation as a Quantum Process" (1988), was that fired the discussion on divine bound by quantum uncertainty the act of creation. This thesis he repeated in various essays, embracing the estimating the issue with Polkinghorne in the frame of current workshops of the Faraday's Institute for Science and Religion in 2006.

6) CHAOTIC QUANTUM FLUCTUATION, ITS TANAKH'S Gen(1:2),Job's METAPHORS

It is also accepted that chaotic quantum fluctuation is the fabric of a hot Big Bang, through which was propelled our primordial Universe (Hawking, S. Mlodinow, A Briefer History of Time, 2008). Its core is a chaotic fluctuation of virtual elementary particles in a frame of quantum vacuum, producers of an unnatural fire energy of the birth of our Universe.

The verses of Gen. (1:2) - "*the earth being unformed ...*", Maimonides conceived that 'At first this Universe consisted of a chaos of elements...' (Guide , p.2, lii.). In Job (26:7), was elucidated "*He it is who stretched out heavens over chaos...*".

That narratives are intimately linked with the following verse of Gen.(1:2) - "*....unformed and void, with darkness... and a wind of God sweeping over the water*"

– Furthermore, the same thought of the authors of Genesis, was more expressively translated by GNB of the American Bible Society, notably *"The raging (furiously angry) ocean that covered everything was engulfed in total darkness and the power of God"*. The latter translation depicts more suitable conditions featuring a machinery of "quantum fluctuation".

A some weird hint on our pondering may serve the Ps.(24:1, GNB)- *"...laid its (world) foundations in the ocean depths"*.

In this aspect is striking the pondering of Timothy Ferris (*"The Whole Shebang"*, 1987), on the dynamic of virtual particles pairs in vacuum, that he imagined as "quantum fields roiling the vacuum like winds across water". Besides, he rendered the chaotic fluctuation of quantum vacuum as a frothing sea of activity. alike the holy text of Genesis (1:2).

In the Glossary of Hebrew Terms of the edition "Challenge", of Aryeh Carmell and Cyrill Domb (1976, 2000) of the Association of Orthodox Jewish scientists, the Hebrew *"Tohy Vavohu"* of Gen.(1:2), is translated as primeval chaos, and in the same issue of Challenge, Alvin Radkovski, a professor of nuclear engineering at Tel-Aviv and Ben-Gurion Universities, contemplated that Big Bang begins with "chaos" under the influence of a primeval light energy effect.

A striking analogy with forenamed Gen.(1:2), in respect parallelism to energizers of quantum fluctuation, is the metaphor of the professor of nanoscience Chris Binns (University of Leicester) - *"...our observable universe as a mass of waves on top of an ocean"*(*"What Lies Beneath the Void"*, eBulletin, February, 2007).

Impressing also commentary of RASHI, that in the beginning were fire [of darkness] and water [cosmic], a medium of the modern fluctuating space (Geshar Ha-Tshuva, Jerusalem, in Russian, 1990). That also coincides with recent data on a liquid-like consistence of the Universe at its very origin(, M.Riordan,W.Zajc, Scientific Am., May 2006).

– That just coincides with our evaluation of the equation of energy interchange - ($E=mc^2$) as "God equation" that heralds that God's wisdom creative force, notable energy (E), propels all in the world, encompassing quantum fluctuation.

Remarkable, that on an appropriate relation of God's energy to the phenomenon of quantum fluctuation conceded also Sir Polkinghorne, a quantum physics expert and Anglican priest (*"Quantum Physics and Theology"*, 2007)), astronomer Hugh Ross, the founder of on-line net "Reason" (2005), and Nicolas Short (2000), PhD, an emeritus educator of "Remote Sensing Tutorial" NASA Goddard Center.

Thus, the holy Hebrew text of Genesis rendered energy ("darkness" fire), that in condition of chaotic move of water (ocean) may resounds to current notion of chaotic quantum fluctuation.

PART THREE. WISDOM'S PURPOSIVE EMERGENT INFORMATION MATRIX GUIDES SELF-GROWTH OF UNIVERSE, ITS BIO-FRIEND LAWS, and HUMAN MIND ***1) INFORMATION: GENERAL VIEW***

At large is accepted that information is a quantity notion, whose essence is a logical matrix of information matrix(UNESCO, 'World Report', 2005), of guidelines signals for various events for a self-organization and evolve of the Universe, biosphere, embracing human mind consciousness. Thus, 'information is an organization of signals', coded as yes/no questions, namely bits, or quantum bits, elements of computing. Consequently, information is understood mathematically and semantically, i.e. in terms of its meaning.

That view overlaps with the expert of informatics Marcia Bates' (Department of Informatics (the University California, Los Angeles), generalization that information

is the pattern of organization of everything, Its essence is 'natural information', which obligate components of the physical universe are energy and matter (particles). Information is represented in two facets: 1) 'encoded' (as symbols - mathematics, embodying geometrics; signals), based on patterns of organization; 2) having information expressed as physical forms. Besides, in living structures information play a role of 'negative entropy' (Information Research, v. 10/4,p.239).

In his turn Luciano Floridi (the University of Bari, Italy, and Oxford) in the handbook 'Philosophy of Information' (Van Benthem, P. Adrians, Institute for Logic, Language and Computation, University Australia, et al. of King's College, London, and University of Britain Columbia, 2008), offers a *concept of information as a primary stuff of the universe, and a self-organizing complexity*. It links the physical and social aspects. Descending from his concept of '*infosphere*', is argued also on a link of information and an ontocentric ethics.

At large information is perceivable as the *forth revolution* (after Einstein's Relativity Theories, quantum physics, law of Thermodynamics). Thus, information is accepted than a fundamental notion across the science and humanity, crucial of understanding physical complexity ('*algorithmic complexity*'), communication and human cognition. Besides, is recognized a relation between the philosophy of information and the foundations of physics.

Floridi at a conference 'Philosophy's Relevance in Information Science' (October 3-4th 2008), in Padeborn (Germany), shared with his considerations about 'Philosophy of Computing'. He deliberates that the physics of the universe is understandable best as a computational process operating with information structures. The universe is imaginable than a gigantic computer which steady recurring computes its next state and consequently the following physical laws. Within this frame all is computable.

In that context is tenable also the conclusion of Ross Rhodes that the universe is both information, and information processing (The BottomLayer website, posted May 1, 2003).

Information is interlinked with entropy, even to a range that Jacob Bekenstein (Scientific Am., April, 2003, in spec. ed. 2008), professor of physics (the Jerusalem University), in his works introduced a term entropy / information. That is relevant as entropy is a disorder of a physical system defining the amount of information that orders the system.

Hence, the two processes are quantum cooperative phenomena the essence of all creation, from a prior chaotic state. Consequently, information is an anti - entropic, (ergotic), anti-chaos process, the creative source of everything. That ergotic processes resist the hazardous chaotic disorder concerned with the Law of Thermodynamics. Thus, information conceded as a process departed of a physical system from pure chaos, thermodynamic equilibrium entropy, which driver are elementary particles.

The difference between the maximum of possible entropy and the actual entropy render the potential information ("Information Philosopher", 2008, a website of outstanding predominantly modern philosopher and scientists views).

Consistently, to the overlook of the website, the essence of creation are the physical processes - quantum physics and thermodynamics chaos cooperative phenomena that in behalf of information runs as a creative order.

Moreover, with an emergence teleological, purposive information it guides in varies self-replicating systems, e.g. of life species, and human mind consciousness.

With an increase of the density of information of human consciousness the mankind turns than a co -creators of the Universe, that is still creating itself.

Furthermore, the increase of information explains all emergent phenomena, including 'nature's laws', and creativity requires a new information flow into the

world ("Information Philosopher", 2008).

Consequently, issuing from that the Universe is an open system, *information in it is primary*.

That general accepted contribution of the notion of 'information', sustains our perception of the apt overarching phenomenon in science, technology, culture, humanity, ethics.

In the same generalized manner Charles Seife, a renown science journalist, tackled on the issue information in his recent book "decoding the Universe" (2006, 7) He points out that the 'New Science of Information' explains the essence of all in cosmos, from our brains to black holes, encompassing the notions of time and space. Naturally, information is also crucial for shedding light on diverse mysteries of the Universe, and basic questions of its creation and fate. Thus, theorists now contemplates that the information does not merely a construct of mind, but the fundamental element of the physical world, something that sits inside every living cell. It exists like energy, in every thing even if there is not observable life.

The critic of the magazine Science (February 6, 2006), deliberates that information links all the sciences about the Universe, and the reviewer of the book of New Scientist (January 8, 2006), Marc Buchanan evaluates the work of Seife, than a brave creative endeavor to show that the law of information is "close to the deep laws of nature, or at least provides the logical fabric from which they flow", explaining our world.

In keeping is also the hypothesis of Davies that the universe actually was been able to fine-tune itself, as against the speculation of a multiverse (many universes) landscape in which is perhaps findable a bio-friendly universe(s) ('The Goldilocks Enigma', 2006,2007; Patrick Barry, New Scientist, 2006). That in some sense logically resounds to Davies' notion of retrocausality discussed above.

In tune with Grigory Chaitin and Gell-Mann, Davies underlined that the study of the issue of the universe's 'organized complexity' through computation enables us to realize that the world is an ordered being framed as algorithmically compressible and also having depth of cosmic significance. This insight are reflected both in the book 'The Mind of God'(1992,2001) and in his talk topic 'Advances in Cosmology Suggest A Link Between Information, Complexity and the Age of Universe' in the conference of the Center for Consciousness Studies of the University State of Arizona (April, 2006).

Descending from the aforesaid ideas of Wheeler and Landauer (cf. below), that the laws of physics gaining 'increasing currency' of the information revolution, Davies is in keeping with them, that the apt laws are rather 'like a computer algorithm, taking input information data and processing output data'.

2) "IN THE BEGINNING WAS" the BIT, QUBIT of a 'DIGITAL UNIVERSE', ITS AGENCIES

The mechanism of function of information is grounded on both kinetic magnetic energy of angular momentum spins, and its transfer capacity.

Experimentally is proved that an intrinsic property of elementary particles and forces (photons) is *angular momentum, i.e. spin*, that rotating generates energy and a magnetic effect. The measure of a rotating spin of particle along its orthogonal axis, around itself, render the "atom" of information - the bit of information.

Recognizable also that the photons are oscillating electric and magnetic waves fields, which energy depends on its wave length. Consequently, they also possess a spin angular momentum (in G. Collins, Scientific Am., January,2004).

The amount of rotations is a quantum-mechanical measure of how quickly a particle makes its spins aligned with and against a magnetic field. This render

the behave of a spin almost like a magnet twisting about its axis.

With another path of tackle on the fundamental role of *subatomic and forces particles than a stuff of the Universe and Life*, most active are Paul Davies, Seth Lloyd and Anton Zeilinger.

Thus, Davies at the workshop of Beyond "Life As Emergent Phenomenon" (March 2, 2007), questioned "How can stupid atoms do clever thing?". Further he argued that bucketful particles by one way form a rock, by another one – baby.

He imagine that all begins from interaction of particles to which attaches wave functions that works as an information wave. In so doing the binary encoding of particles take place by the clock - anti - clock orientation of the kinetic of spins of particles, i.e. electrons.

Davies proposes that the way to the marvelous complexity of the human brain is emerged through entanglement of a collection of particles like electrons with spins recording the bits (qubits) of information, with an upper limit of entanglement superposition - 400 particles. Still, he ponders that even by applying the entire universe as a maximal information resource would be specify only an arbitrary, selected by random quantum state, even so let alone model in evolution with time.

However a pertinent model appears to be extremely arbitrary.

Now Davies works on that model of 400 particles, specifying with lesser information and higher level of information compressing algorithm. The hard problem of entanglement of such score of particles, that they require 2 in power 10, more information parameter, as does not entangled one.

So Davies notes that for instance 10 atoms with their spins aligned with or against a magnetic field, and not entangled, is necessary only 10 bits to determine the state for each atom, whereas for that number of atoms in an entangled state necessary 1024 parameters.

Thus a state of 400- entangled particles requires a bulk of bits of information to specify its state, *more than existing in the entire observable universe*.

Nevertheless, he believes that competent entanglement of 400 or more particles must be a subject of experimental programs, and is hopefully that in the near future the experiments will be on the start (Idem. New Scientist, June 30, 2007).

Strikingly that the reviewer of the book of Davies "Goldilocks Riddle" (2006), Stuart Wavell (in Sunday Times, October 8, 2006), especially underlined Davies' inference on the preponderant role of information as an immaterial stuff and its subatomic carriers (photons of electromagnetism waves and subatomic particles as building blocks of the Universe and life).

Notable, quarks as electrons also possess a spin momentum and at heart, they are the basic elementary particles of atoms.

Besides, the lately disclosed neutrino particle, the second after the photon most numerous known elementary particle in the world, also possess a spin of half integer (A. Donald, Scientific Am., April, 2002). Notably, that they every instant pass through our body in an amount over a trillion, as well as through cosmic bodies unhindered (F. Close Scientific Am., December, 2002). Lastly was revealed that tiny particles along the earth flits through other cosmic structures, and might have an ability to travel through time.

Furthermore, Henrich Pas, one of the 80 physicists at Fermi National Lab., Batavia, Illinois, reported on finding a gap in the Standard Model of particles, regarding that neutrinos are generated not only by the nuclear high - energy of sun, but also of the earth atmosphere, launched by the high - energy of atomic nuclei from space, known as cosmic rays. They bang into nuclei in the atmosphere producing electron -neutrino that on their flitting way transforms in another electron variants. Now the proper massless particles information is

envisioned as presumable key of a 'theory of everything' (Marcus Chown, New Scientist, August 1, 2007).

Besides, Euchiro Komatsu of the WMAD team (University Texas at Austin), told about the recent results of their research of reveal neutrinos in the first seconds of the young universe. In its age of already 380.000 these particles were 10% of universes atoms, and photons - 63%, comparable to currently only 1% of neutrinos (Physicsorg.com, March 8, 2008).

The matter is tenable, regarding that neutrinos along photons are generated than high energetic particles carrying most information density in the Universe (Lloyd, Ng, 2004).

Quantum - entangled particles or photons spins represents a *quantum bit - qubit* (A. Zeilinger, 1999; M. Aspelmayer, A. Zeilinger, 2008). And Zeilinger claimed that such 'quantum state to me is nothing more than a representation of information' of our reality.

One of the ardent fans of Zeilingers pioneering idea that a qubit is the fundamental building block of the Universe is Hans Christian von Bayer, the Chancellor Professor of Physics (College of Physics of Williams and Mary, Williamsburg, Virginia). In his intriguing paper 'In the beginning was a bit' (New Scientist, February, 27, 2001), and in the popular book 'Information: the New Language of Science' (2004), he discussed the views of Zeilinger that information resembles equally to abstract notion of energy.

Moreover, Bayer accepted the view of Zeilinger, that a quantum bit is pictured in a soft, translucent sphere between science and philosophy. Even so he generalized that the *elementary system of one bit of information is irreducible seed of all around: particle, quantum physics, Universe, life, human being consciousness and his humanity, embracing ethics.*

The suitable idea reflects also the view of Anton Zeilinger, one the foremost leaders of quantum information, the top physicist at the Institute for Experimental Physics (the University of Vienna), and at the Institute for Quantum Optics and Quantum Information (Austrian Academy of Sciences). He offered a concept that the building blocks of the world are spinning elementary particles bits of information, instead of matter, atoms or quantum fields (Foundations of Physics, v.29, No 4, 1999; Edge, issue 94, August, 2006)).

A more extended and explicit essay about the matter of universal information and its energizers, Zeilinger submitted in his site ww ,quantum.at, under the title 'Why the Qubit? It from Bit? A Participatory Universe?'

There he paid tribute to this Wheeler's insights of rendering those far-stretching visionary questions that deeply inspired Zeilinger's quantum experiments. His and others outstanding quantum experimentalists results draws them to realize that the world resonates through information about itself. They also hold up that information's carriers function are expressed by means of particles entanglement and teleportation independently of quantum randomness. Accordingly, that all we can do make are statements about the world, expressed in a discrete numbers of bits". For that reason the world is participatory regarding the free will of the experimentalist to choose an adequate measurement apparatus, particularly of photons. As a result the universal information is observable.

In an interview to the editor of Edge 94, August (2006), Zeilinger conceded that through choosing the measuring experiment, he get the opportunity to choose the results, the two basic freedoms that governs in quantum physics. This does not excludes an existence of deep deterministic regularities. Still the pillar of his contemplation of the concept of "information" is "the basis of everything we call "nature", thus information is the building blocks of our world, and the "laws of

nature should make no distinction between reality and information".

Regarding Wheeler's call 'It from bit', Zeilinger underscores that the basic unit of information is the bit, while one bit is not sufficient to specify both the momentum of a spin and the trajectory of a particle. Hence one of these two qualities remains unknown, i.e. irreducible random. Considering the suitable limit of information 'the universe is fundamentally unpredictable'(and thus its feature ought be emergent).

Meantime, he is waiting a breakthrough in quantum physics in finally understanding what is the miracle of nature of such physics enormous successfulness, along to its meant counterintuitive riddle. In the near future Zeilinger's team will make another breakthrough in this area, namely a wide use of quantum teleportation information as an approach like quantum computer's property 'to talk each other' (Zeilinger, New Scientist, November 18, 2006).

3) A 'STUFF' of the UNIVERSE and LIFE.

The most plausible theories of a 'stuff' of space-time and the Universe are the Loop Quantum Gravity(LQG) versions, Causal Dynamical Triangulations(CDT), and String Theory.

The latter theory now is dominating in the academy, still as a mathematical theory, offering a vision of oscillating strings that are working at Planck scale, and through vibrations of various frequency yields the zoo of elementary particles, including gravitons, the carriers of gravitational force (B. Greene "The Elegant Universe,2000; Edge, issue 95, 2006). One of its hallmarks are ten extra dimensions, six of which curls up in so called Calabi - Yau shapes or spaces.

Even so at present is accumulated a representative critical literature that the string theory renders "a kind of metaphysical wonderland"(Burton Richter, director emeritus of the Stanford Linear Accelerator Center, in G. Johnson, Scientific Am., September, 2006). The devaluating of the string theory are also based on its entirely non-testable notions than ten-dimensionality, Calabi- Yau spaces with its an infinite way to be curled up ("compactified"), and the existence of some 10 in power 500 good theories with each different physics.

In that province are the books of Lee Smolin "The Trouble With Physics: The Rise of String Theory, The Fall Of Science, and What Comes Next "(2006).

The LQG theory developed by the team of Smolin, offers an approach to submit elementary particles as only braid tangles in space. Thus, everything in the Universe, emerges from merely a network of relationships of magnetic fields descending from the energy of rotational motion of particles spin and its magnetism. That properties of spins turns as a safe recorder, transmitter and store source of information.

The Editorial of the New Scientist of August 12 (2006) was entitled " Loop quantum increases its pull". The editor of the magazine evaluated that LQG "could be the most profound scientific generalization of all time".

A further development of LQG is *it braiding version of fractioned particles, as reference for an information web.*

A theoretical grounding for the suitable project we find in the paper of Sundance Bilson - Thompson, F.Markopoulou and L. Smolin , titled "Quantum Gravity and the Standard Model" (High Energy Physics - theory, abstract , hep-th/0603022, May 3. 2006; Class. Quantum Grav.v.24,p. 3975, 2007). In their work were shown that that quantum space-time local excitations of the first generation of fermions (particles with spins 1/2) propagate coherently as sure noiseless subsystems of patterns of braiding graphs. The model features quantum gravity of topological *preons - fractioned subparticles model (with fractioned 1/3 electrons).*

The theory offers an approach to submit elementary particles spins as only braid

tangles in space. Thus, everything in the Universe, emerges from merely a network of such relationships. Whereas that properties of spins turns as a safe recorder, transmitter and store source of information.

"Causal Dynamical Triangulations"(CDT)-a preferable model of basic 'stuff' of Universe

Remarkable that recently in the respective Scientific American, by Mark Alpert (February, 2007), also was challenged the string theory. He offers to replace it with a new theory called "causal dynamical triangulations" (CDT), as a promising model of universe unifying the laws of gravity and quantum mechanics, the Holy Grail of the modern physics. He criticizes the string theory for its main shortcoming - a fixed background. The theory are permissible for generating both particles, forces and even space-time, and more advantageous than LQG, though CDT far off liken to LQG.

The developers of CDT using computer simulation in 2004 succeeded to design a 4D universe from hundreds of thousands of triangular simplexes, an equivalent of a tetrahedron with four triangular faces, viz. a 4-simplex bounded by five tetrahedrons. Of the suitable microscopic 4 triangular faces simplexes are acceptable to construct curved space - times constantly changing and rearranging in new patterns.

The researchers of pertinent original model of the space - time, a new direction towards unifying the quantum physics with gravity, are theorists Jan Ambjorn (the Copenhagen University), Jerzy Jurkiewicz (the Jagiellonian University, Poland), Renate Loll (the Utrecht University, Netherlands).

In their recent paper in Scientific Am.(June, 2008), is argued on CDT than a theory of a self - organizing quantum universe. Their computer simulations showed that the space - time of universe sculpts itself more reliable as triangles pattern, whose superposition shapes, and though its behave are random, at large - scales of 4 - dimensions (4D), and it set up in highly symmetric shapes of the de Sitter universe. Such geometric shape of universe is powered only by Einsteins's Cosmological Constant (CC) energy. On small scales space-time, i.e. 2D, it takes fractal shapes.

Besides, the authors call the attention that a fractal render a bizarre mode of space without any size, but self - similar, looking the same on all scales.

One of fundamental principles of CDT is it causality, viz. purposive orient to an effect of self - shaping of universe under the moving force of CC and quantum fluctuation.

From this viewpoint the CDT theory is most relevantly to our position that the imaginable fundamental building blocks or 'stuff' guided teleological towards self - complexifying Universe, and Life, embracing a human mind consciousness. Regarding that triangles shapes are also a symbolized expression of information, and in a framework of quantum events of CDT the information runs as a purposive emergent creativity.

4) FRACTALS - may be as DIVINE WISDOM'S MATHEMATICAL INFORMATION

Fractals itself are derivations of mathematics, i.e. geometry (symbolic expression of information, rather as tiny patterns of computable triangles), Consequently it render an expression of compressed information algorithm (cf. Barnsley, 1994, 2006; cf. Marshall, 2007).

One of the leading properties of fractal geometry - self - similarity, noticed already Maimonides arguing that the man is a microcosmos shaped by macrocosmos of God, and this idea was repeated by rabbi Moses Cordovero, 16th Century. In an essay *Tomer Devorah* on Ethics was said that "Microcosm is an exact replica of the Macrocosm... in the meaning of *Imitatio Dei*".

Besides, the outstanding mathematicians Georg Cantor and Hermann Weyl, mystically tended the suitable symbol of *alpha* to perceive as an infinity of God, that in a certain sense is akin to fractal mathematics landmark. Meantime, the famous Cantor's set of infinite numbers is now recognized as fractal.

This impression was sided by the deliberation of Sir Robert Penrose, acclaimed as one of top live mathematician, that the discovery of mathematician like that of fractal geometry of Mandelbrot 'have stumbled upon 'works of God', and resonated as 'God - given' ideas (Idem. 'The Emperor's New Mind', 1989,1990).

That considerations keep up the reasonability of linking fractal geometry with God and His creative wisdom information. A linkage to the inference we found in *Avot*, III, 18 saying "*Astronomy and Geometry are supplementary to wisdom*".

To the point the *Avot* ("The Ethics of the Fathers"), was compiled at the time of Ben Zoma, i.e. two thousand years ago. This time was about the sixth - century's Babylonian period of deportation of Jews, when the Jewish mind elite perhaps became infected with the mathematical ideas of Babylonians and the Pythagoras arithmetic and geometric ideas, after his capture by Persians in that time period (Margaret Wertheim "Pythagoras' Trousers",1997). She and also Eli Maori ("Three Square of Pythagoras Theorem : A 4000 - Year History" (2007), reminded that the popular geometric "trousers" central structure is a triangle [the discussed above by us triangle than a crucial minuscule coded information entity of fractal].

Furthermore, the Greek mathematician and theologian highly respected for the number 10, called divine tetraktus, the sum of the first four whole numbers. By the help of dots arranged in various shapes, were constructed triangular numbers. The triangular shape of 10 was valued than a sacred symbol.

Moreover, the might of numbers and geometry compelled the ancient Greeks to develop a complete world view of a God as a Great Geometer (P. Davies, 1992,2001). This line was sustained already in the early scientific era, when Johannes Kepler (1571 - 1630), depicted God as a geometer.

Pythagoras was also the inciter of the idea "numbers as divine construction", that was caught up by the German mathematician Leopold Kronecker, (1823 - 91), namely the integers are God's creature. Whereas Hermann Weyl's (1885-1955), dominating idea was that his pantheistic God is resounding through symbolical structures ('The Open World', 1932). The thought is a far echo to the now discussible fractal symbolic of a pantheistic system.

In the modern time is to regard Einstein's assertion of his relativity theory's 'geometrization' principle. He claimed that "... the whole scientific thinking process is 'geometric', and all elementary notions are reducible to geometric space - time concepts of 'natural laws'"(A. Einstein "Physics, Philosophy and Scientific Progress", in Coll. Works, v.4, p.321, 1967, Moscow, in Russian), and also in Ch. Misner, J. Wheeler "Classical Physics as Geometry": Albert Einstein in Gravitational Theory" (Coll. art., 548, 1979, Moscow, in Russian). That in a certain sense is alike to A. Linde's deliberation that the scientific knowledge get our consciousness observation of the universe is expressed as fractals(cf. below).

Thus Einstein hoped to found an 'United Field Theory' through geometrization, that later resonated in the works of P. Davies. This smart theoretical physicist already in 1995(("The Synthetic Way", ch.18- "Time Loop"), dreamed that in the next decades would "able to write down a formula of some mathematical statement... of all the fundamental particles and forces out of which the world built". Further, on the question "Why the fundamental laws of nature are mathematical?", he explained "Because we define to the fundamental those laws that are mathematical"(Idem. "The Mind of God", 1992,2001).

This in a certain sense are in tune with the considerations of rabbi G. Plaut (1981,2006), that God governs over the secrets of numbers, viz. mathematics .

One of earliest works on this issue was that of the irritating mathematician Clifford Pickover that in his Book "The Loom of God"(1997), separated out a chapter "Fractals of God" and a postscript "Godel's Mathematical Proof of God's Existence".

That is echoed also in the debate with skeptics of Perry Marschall (2007), that the *Mind (God's metaphor)*, likewise coded information than fractal patterns.

In the reviewed framework the idea of rabbi Nelson (2006) of a metaphor of God's shapes as fractals are perceivable as original, feasible and quite robust. He envisages that God's "shape" reflect the fractal shape of the nature of the universe, "visible at scales from the submicroscopic to the supergalactic". Such a bold contemplation of Nelson challenge the problem of a theory of quantum gravity that unites the macro-cosmos relativity theory and micro-cosmos quantum physics theory - the royal route to the Holy Grail of a theory of everything.

The idea is quite in common with arguments of one of top experts in computation science Seth Lloyd, that in his recent works offered the primary information, called "One Qubit", as the integral denominator of quantum gravity. (Programming the Universe", 2006; Physics World, September, 2006),

We find a common denominator in the idea of Nelson and Lloyd, is information regarding that fractals in its essence can represent a coded geometric information that was sustained by the deliberations of the noted network expert P. Marshall (2007), and overlaps with Lloyd's qubit - a computable information entity.

The exceptional universality of the phenomenon 'Fractal iteration' information

The up-dated review on the abundance of the effect of fractal shape iteration evidence on its utmost remarkable spread overall in our world, viz. universe (nature) and life: science, technology, economics, religion (embodying Torah, starting from the opening verse of Genesis), art, society, culture (including ancient civilizations).

In 2005-2008 is unrolled a boom in publication both of papers and respectable books on the issue of the role of fractals in mathematics, physics and biology, whose amount were over 60.

On the riding high the issue "Fractals" evidence the publication of a wall calendar "Fractal Cosmos" for 2008 (from the series Dragon Calendars).

At the 2006 - 8, our interest arose the works of professor Laurent Nottale, a Director of Research at CNRS of the Observatory of Paris -Meudon, and Laboratory of the Universe and Theory. On account of his prolific activity were published several fundamental books and more as 20 papers, submitted to his original and bold theory of fractal space - time based on scale relativity, that extends Einstein's Relativity Theories.

The hallmark of Nottale provocative theory of scale relativity towards extension of Einstein's Relativity Theories, is a scaled fractal structure of space - time.

That held up in his and colleagues set of publications, one of which is Nottale "On the Transition From the Classical To the Quantum Regime in Fractal Space - Time Theory" (Chaos, Solitons and Fractals, 2005, v.25, p.777).

Noteworthy also the extended scientific - philosophic investigation of Bruce Lipton (professor of evolutionary biology at the Wisconsin University) on the issue of the revived and modernized notion of holism and wisdom of our universe in the light of latest science, especially from the view of fractals and chaos. He underscores that fractals are a modern version of geometry based on simple mathematical equations. Repetition of the equations modes a self - similarity pattern of higher and lower levels organization of the nature. Hence are pictured a nested

Russian dolls of our reality.

Notable, one of the top cosmologist and founder of the theory of inflationary cosmology Andrei Linde in his paper "Fractal Structure of the Universe", explained his concept of a self-reproducing universe due to its huge fractals ("Inflation and Quantum Cosmology", 1990).

In a discussion on a symposium "Science and Reality", March 16, 2002, he claimed that our universe renders as eternally evolving fractals produced by quantum effects. He imagined a fractal pattern render an exact replica of the whole pattern.

Linde's crucial idea is that the universe of its Big Bang initial state evolved to its inflationary era through chaotic fractal-like twist.

Meanwhile also Max Tegmark, the renown enthusiast of 'Parallel Universes' (Scientific Am., May 2003), issuing from mathematical models, likewise envisioned the universes of fractional dimensions.

Moreover, Pratigs Bhattacharyya, et al. (Saha Institute of Nuclear Physics (Indiana), brings forward evidences that fractal mode is common for the behavior of the economic market and even earthquaking (Physica A, v.381, p.377, 2007).

This view in a certain sense overlaps with the work Robert Dyck "Fractal Planning for Integral Economics Development" (Kybernetes, v.35, p.1032, 2007).

Besides, among the outstanding research in the sphere of the theory of fractals deserves attention the best-seller of the outstanding mathematician of the theory of fractals Michael Barnsley "Superfractals: Patterns of Nature" (2006), that also explicitly tackles with the matter of information compression algorithm of fractals.

He always 1982 published a seminal and smart book "Fractals Everywhere". Challenging further the problem Barnsley with his colleagues developed a new link between the physical reality, symmetries of mathematics and information theory, called superfractals. It in a certain sense renders the next step in finding through chaotic harmony to spotlight the unification of information theory and physics.

Consequently, Barnsley covered the topic of information algorithmic compression of fractals, and through its simple mathematics he showed a multitude of varied *triangles* as ubiquitous in the nature.

In interim Davies (2006,7) also demonstrates that space-time warps of universe also contains tiny triangles, the mathematical elements of fractals.

Hence, Barnsley and his collaborators by apply of simple rules of superfractals enables to guide the chaotic overture of iteration towards a field of fractal patterns order.

The forenamed literature on the role of the generalizing role of fractals just in all spheres of science and humanity is only a representative part of the huge treasure on the integrative act of fractals information. That is beyond the abundant literature on the sacral fractals pattern that along the Hebrew Bible is mostly concerned with Eastern wisdom and mystics.

Richard Ellis' pioneering thoughts on fractals of Torah, viz. Genesis and Leviticus; the fractal coded word B'reyshit beforehand a fractal code of all Torah

For us is highly impressing the work on fractals of Torah of Richard Ellis, an internationally respected and highly honored mathematician, a distinguished professor of the Department of Mathematics and Statistics (the University of Massachusetts, Amherst).

Interestingly, that the interviewer of SIAM, Dana Mackenzie (October 26, 2004), rendered professor Ellis as "mathematics professor in Judaism".

Actually, Ellis activities motto are "Mathematics is the Judaism of science!", "Both are crucial and no one understands them!". Besides, he is a sympathizer of Buddhist teaching of Zen.

His pioneering work on the issue of fractal geometry of Torah was "The Book of Leviticus and The Fractal Geometry of Torah", published in the "Rabbinical Assembly of Conservation Judaism Magazine" (Fall, v. 50 ,1, p. 27, 1997).

A systematical synthesis of the landscape of narratives and metaphors of Genesis and Exodus, as well as the dry code of Leviticus, lead Ellis to a mathematical law of nature, a notion that parallels to Mandelbrot fractals. The essence of both that the shape of the whole is 'mirrored in the portions of the whole'.

For instance each life - form possesses the ability to reproduce itself from a portion of itself. That sides our proposal of an essence of an information program of adequate fractals pattern inbuilt in every life - form. That parallels to Torah's truth, especially in the record of the third day of Gen. (1:11-12), than "...seeds in it...", "seed - bearing plants of every kind...". For that reason a birth and reproduce of life are a consequence of a wisdom code's emergence information fractal flexible laws of alternative program leading to shaping its origin and evolve.

Ellis claimed that the stories of Genesis and Exodus, both animate and embody the concepts of *the wisdom of Torah's legal code*. "These stories prepare us to appreciate the necessity and wisdom of the law that comes later" (R. Kass "A Genealogy of Justice", Commentary, June, 1996, p.44). The former conceded that a legal code without the narratives of Genesis is a cold, inaccessible jewel. *The legal code starting with the Ten Commandments is crucial for the divine believe. And the Word is to be an echo of the divine order that he portrayed in the Creation story.*

Moreover, the human body became a symbolic part of the cosmos as a whole.

He perceived that the key structure of Torah is based on a mathematical law than a fractal law of geometry, i.e. each small portion is viewed as a reduced scale replica of the whole.

Ultimately, the humankind is imaginable as the fruit on God's tree, the Tree of knowing of Good and Evil. Ellis predicated that the Torah is that Tree of Life, each man are blossoms on its fractal branches. Consistently, *Torah's fractals emerges of the whole sacred book, and also of parashah, chapter, verse, line, word, letter.*

Fair for us, the admission to such fine consonance in evaluation of the Torah's fractals both of a notable mathematician, and a rabbi, with a PhD as Nelson (2006).

They both confessed that the sacred book (Ellis) or 'holiness...the whole book' (Nelson) echoed in every *parashah* (Ellis) or story (Nelson), verse...word...letter (both authors).

Ellis also realized that the fractal law of nature is also a basic of philosophical insights of Torah.

5)The ESSENCE of QUANTUM INFORMATION is a SUPERPOSITION PRINCIPLE

Experimentally is shown that an quantum system are workable not only in one of two states, but also in a combination of them, called superposition, or entangled states (quantum inseparability or entanglement).

The notion entangled states, or entanglement is based on the Irish physicist John Steward Bell discovery on an existence of instant, faster-than-light non-local correlation among remote two particles in virtue of their coherent superposition (quantum inseparability) featuring an entangled state. Tiny interaction with the surrounding environment or an observer, rapidly destroy or dissipate ('decohere') the peculiar quantum state of superposition.

An appropriate quantum state is demonstrable upon a simplified instance of electron spin state which endows its magnetic moment. The energy of interaction of spins magnetism with the external magnetic field renders information about a spin orientation, a spin -up and spin-down. This depends on the state of electron's spin magnetic moment points along the external magnetic field (low energy) and opposed to it (high energy). Consequently the measured information of electron's spin energy submits information about the energy state of electron spins, considering a non-local correlation of two distant particles through its quantum inseparability.

For the matter, Davies (New Scientist, June 30, 2007), explains that in a non-entangled state, is only needed 10 bits of information to become a characteristics of the state of every atom. Whereas for defining the state of an entangled atom, necessary to specify the parameters of 2 in power 10, or 1024 values.

Noteworthy, as we already mentioned above, the limit of information depends of the maximum of operation of the Universe succeeded to perfect the particles inwards its horizon. Such horizon of the observable Universe existence depends of the finite speed of light, and thus of its age. With aging of the Universe the contend of atoms and its particles operations energy increase interweaved with the density information transmitted.

Davies (2007) computed that in our epoch the volume of space within the horizon contains approximately 10 in power 10 atoms, encompassing 10 in power 90 photons and neutrinos. Each particle is a carrier of a few bits of information.

In this framework is striking the thoughtful reflection of the 'pessimistic' information physicist, the noted David Deutsch, on the 'Real Big Questions' of John Wheeler, – 'It from Bit as the foundation of physics'? The answer we found in the former work - 'It from Qubit'“(2004).

Deutsch pondered that 'No one knows how to derive it [the nature of the physical world] from bit, and I shall argue that this will never be possible. But we can do the next best thing: we can start from the qubit' (in Science and Ultimate Reality, J. Barrow et al, eds, 2004). He believes that in the next 50 years is hopeful to challenge a 'major integration between physics and information science', and the key breakthrough in the development of a quantum theory of construction, that will tell how hard to built a quantum computer (New Scientist, November 18, 2006).

Strikingly, that on the rendered above Wheeler's question, a categorical plausible answer 'It from Qubit' ! came from the foremost computation theorist Seth Lloyd, professor of quantum mechanical engineering, and the first designer of a feasible computer (MIT), represented in a very extended essay on the site "Edge", Meeting with Seth Lloyd - "It from Qubit", v.79, February, 2006, and Seth Lloyd.html).

Lloyd and Jack Ng, a professor of physics at the University of North Carolina at Chapel Hill, deriving from their simulation experiments also claims that everything are made of spinning particles bits, envisioning the Universe as a quantum computer.

They perceived the laws of physics as computer programs and the core of 'existence', that Universe is computing itself – the pillar of the unity of nature. Thus 'the ultimate theory' intimately connected with quantum information. The researchers insists that by means of particles software, 'the universe computes quantum fields, chemicals, bacteria, human beings, stars and galaxies'. By this way is also computed the universe's space-time geometry. Consequently, once more 'computation is existence' (Scientific Am., November, 2004).

This is in kind with the view of L.Smolin ('Three Roads to Quantum Gravity', 2001); D.Deutsch (2004); Y. Bekenstein (Scientific Am. August, 2003, January, 2006), Davies (2005,6,7).

Lloyd in his prolific works offers a new paradigm of the origin of the Universe and Nature with two primary interconnected quantities - information and energy,

along to randomness, that turns to a maximal ordering information.

Thus, in the explicit work 'It from Qubit' (website sethlooyd), he claims that 'My idea here is that in all existence there is only *One Qubit* - one single chaotic fluctuation trapped in its own singularity...it is the only thing (i.e. in the world) that exist'. Lloyd supposes that such qubits interact with itself in a feedback loop which triggered BB (or infinite BBs). Thus, 'everything emerges from that *One Qubit*'. Consequently, the Primacy information has a One source - a *Que Qubit*, an ontological perspective of Existence and a Wholeness / Oneness.

The now so popular catch word 'It from qubit !' most extensively was also tackled in Lloyd's recent insightful and ambitious work 'Programming the Universe: A Quantum Computer Scientist Takes On the Cosmos' (2006). There he argues that the Universe itself is science, working as one big quantum computer, producing all we see around, and ourselves according an information program coded through qubits. Consequently, Lloyd set out the creation of the universe through processing information in a mode of random fluctuations in the quantum foam of space-time.

Accordingly, the Universe works than a number generator in a computer program, asserting subsequently higher density areas, matter, cosmos structures and finally life. He also points out what we see around us, and ourselves it runs in a cosmic program. And once we will understand the laws of physics completely, we would be able to a small - scale quantum computing, yet in this direction is yielded only promising avenues of research.

Moreover, Lloyd lastly published 'A Theory of Quantum Gravity', in quant - ph /051135, and revised in April 26 (2006). The theory is based on quantum computation of information. It is offered an approach of unifying quantum mechanics and gravity grounded on quantum computation. The proposition springs from the geometry of space - time as a construct emerged from the underlying quantum information processing.

Further, Lloyd claims that everything in the universe submits a store of information, regarding the genuine 'digital' nature of subatomic states that processed by a giant universe computer that computes 'its own dynamical evolution', and 'as the computation proceeds, reality unfolds'. He also explains that human beings process information in a specific way through a inborn universal language and grammar (in the light of Noam Chomsky 'Language and Problems of Knowledge', 1988). This is the grounds for the royal road of communication and development of the social communities of our civilizations. Consistently to both standard and algorithmic information theory, "true randomness actually corresponds to maximal information, complexity and description (Lloyd, Am. Scientist, October 2006).

Moreover, now Lloyd works on a model of a black hole as a quantum computer that process from it information (in an interview to Maggie McKee of New Scientist, March 13, 2006; Rev. Lett. v.96, p.061302, 2006).

6) UNIVERSE-GIGANTIC COMPUTER,ITS LAWS-a SOFTWARE of [NFORMATION _ NETWORK'S ALGORITHMS; ITS LIMITS

Descending from Landauer (1986), and later of Seth Lloyd (2006) bold invitation to envisage the Universe than a gigantic computer, Davies for some time became also a zealous proponent of this vision. Thus, in his works in Beyond (2006, 7), and New Scientist of June 30 (2007), he shared with a proposal that concerning the revolution in the field of computer science turned the paradigm of that, the physical world and its laws are a product of a collection of interacting particles, to "a *seething network of information*". This open the way to look on the laws of nature as gigantic computer's software or compressed information algorithm, and the material world - its hardware. Regarding that laws emerge with the universe

at BB, they being rather inbuilt in it.

Notably that computer scientists such information accept than a meaningful, viz. semantic, yet does not as a raw bits.

In line with Landauer's and Lloyd's limit of universe's information density, depends of its age and speed of light, naturally at the first split of second the starting laws have been seriously fuzzy.

However, consistently to Wheeler's considerations physical laws essence is "an information - theoretic entity, and thus inbuilt in the universe with some sort of looseness. Consistently its mathematics and physics are expressed than an information processing algorithm, and even the essence of incoherent nanomolecules starting life, also represent a coded information processing system. Meanwhile, as was mentioned above at the start of the competent processes the information density was at a begin of unfolding and hence very deficient in relation of initial laws of the Universe.

Ironically that some thoughts of Davies offered in "The Goldilocks Enigma", are criticized by Anthony Kelly, PhD and lecturer at Faculty of Education, Humanity, Law and Theology, Flinders University), in an essay entitled "Resolving the Goldilocks Enigma: An Evidence Based Approach", publ. in philos.hilos.com in the frame of Philica (where ideas are free), March 25. 2006).

He is in kind with Davies proposition on an effect of intelligent design in "select a set of laws that without any periodic fixing up and micro - management can bring about a self - assembly of life and consciousness well, that looks very clever indeed". Even so Kelly opposes to Davies assumption "the universe appears designed", but an apt design in physical laws and biological organisms has a testable scientific explanation in a frame of Darwin theory of evolution.

The mainstay of Kelly's scenario is that there is a good reason to suggest a self - existent entity than an intelligent designer of the cosmos, that operates as a purposeful process through a series of freely operating emergence stages.

Such freely operating stages not depends of a designer, operating as God "hand - off " concept of the development of the world.

The machinery of the suitable process are Mathematical Constants encompassed in its information. Due to that mechanism are launched the subsequent emergence states: - of matter, life, moral - cultural.

Remarkable that Kelly proposes that first emergence stage related to matter had been produced from the energy and some information embodied in Mathematical Constants imprinted into the BB. The process of human spiritual and cultural self creation Emergence State was enabled rather at the Homo Sapiens, era that arose about 100.000 years ago, whose large brains provided a potential to develop their information gathering capacities obligate for survival.

Reviewing Kelly's concept we can object to former critics of Davies as though "hand - on " posit, regarding that that latter spoke of a purposeful design of only origin of the universe, and he distanced from further nature's evolve(The Guardian, January 6, 2007).

Besides, mathematics and its constants are algorithmically compressed information, yet does not otherwise.

Notably, that the renown physicist Jacob Bekenstein (the Hebrew University, Jerusalem), accentuated that 'likewise, a century of developments in physics has taught us that information is a crucial player in physical systems and processes'. And he accentuated that the initiator of the current trend was Wheeler of Princeton University, his tutor, that regarded the 'physical world as made of information, with energy and matter as incidentals'(J. Bekenstein, Scientific Am. August, 2003, updated in spec. issue of Ibid. 2006).

Between the followers of Wheeler's idea on the dominating role of information in the physical world is also Andrei Linde, a foremost theoretical physicist and cosmologist, one of the principal architects of inflationary theory of universe(s) that admits - "In the absence of observers (of information) our universe is dead", 'the universe and the observer exist as a pair' (in T. Folger, 2002). (He even accepted the idea that the universe is fractal, cf. below).

One of scientific stars of the new generation Fotini Markopoulou Kalamara (The Perimeter Institute for Theoretical Physics in Waterloo), a laureate of prize for young scientist ideas contest in honor of 90 year jubilee of Wheeler, set forth also an insight close of that of Wheeler and Linde. She argues that 'Who looks at the Universe', actually are we, regarding that the universe possess its own observers [of information] on the inside (Amanda Geffer, Scientific Am. December, 2002).

Recently Markopoulou and her colleagues are grounding a concept which main principle is that space itself of the Universe becomes quite a web of information (in David Castelvecchi, New Scientist, August 12, 2006).

7) TANAKH'S METAPHORS of GOD'S SOUNDS COMMANDS INFORMATION CREATED the UNIVERSE and LIFE

The most striking parallelism between the notion of *primordial universal information* and a metaphor for God's word sound command, we find in the narratives "And God said...(Gen. ch.1: 3, 6,9, 11, 14, 20, 24, 29). The commands value was summed in a metaphor of Ps.(33:6) - "... and By the word of the Lord were the heavens made...".

Regarding the instance of the impression of such God's words on the adequately inspired people, as follow- "The Lord spoke to you out of the fire; you heard the sound of words but perceived no shape - nothing but a voice...", commanding on "the Ten Commandments...". At the same time *the Lord commanded me* (Moses) *to impart to you laws and rules for you to observe...*" (Deut.4: 12-14).

Thus, at hearth Moses was the main "Mouth resound" of the inspirations of as if pushed by God (rabbi G. Plaut, 1981, 2006); D.Praeger, rabbi J. Telushkin, 1986).

The appropriate interpretations sprang also from a commentary in the *Be'reyshit Rabba* Midrash (6th century, an Homiletical exposition of the Hebrew Bible), appropriately "God created the world by his word of command, guided by the Torah, i.e. by the information of God's words writ in Torah's wisdom.

To the point, Daniel Matt, PhD and professor of Jewish Spirituality (the University of California), argued of an existence a resonance between the Tanakh narratives of creation of the world through a 'broken symmetry', that is now accepted as one of central principles of modern science.

However, we are comfortable with the deliberations of rabbi Nelson (2005,6), that considering that the human brain (also of the ancient authors of Tanakh), is a fractal information imprint of "God's Image". Besides, the Scripture and the whole Torah and its *mitzvot*, are divine.

The foresaid proper sayings of Genesis and Psalms were borrowed by 1 John 1:1 as a metaphor "*In the Beginning was the Word...*".

In this connection is imposing the summing sentences of Anton Zeilinger, one of the outmost expert of quantum information, in his online outlook "Why the Quantum? It from Bit? A Participatory Universe? - viz. the three Far-reaching Visionary Questions of the guru of theoretical physics John Wheeler, that inspired the research route of Zeilinger. He contemplated that "It might even be fair to observe that the concept of information is fundamental, is very old knowledge of humanity witness for example the beginning of Gospel according 1 John "*In the beginning was the word*" (<http://www.quantum.at>, 2005).

This saying overlap with the pondering of Francis Collins, the head of the NIH's National Human Genome Research Institute, an evangelical Christian, that regarded the term "biology" than composed from the Greek words "bios" -life the "logos" - word or knowledge, and remade they in a new composition metaphor - "BioLogos", that is a some equivalent to the maxim of John "In the beginning was the Word (Logos)". He assumed that the key value of the word, namely information is set for the origin end evolve of the life, especially through information coded in DNA. It is the base of Collins book title's metaphor "The God Language" (2006).

In the same time he has less stringent expectation for the words of the text written of God directly. So he is consent that the continuity of life after its origin at some 4 billion years evolves in dependence from the physical regularities of continuity of DNA with sequences that undergo random mutation and natural selection. At a time he suggests that the proper process emerges due the information of "the language of God" purposely pushed at the origin of the world.

On overarching role of the words of the Torah, fundamentally holy in Judaism, underlined Professor of philosophy Sir Jonathan Sacks, chief rabbi of the Orthodox Jewish community of UK(Idem. Faith, online. Faith Lectures, February 6, 2001; Experts Search, Jonathan Sacks : Encyclopedia). For his prolific seminal activity in the religious and spiritual life in the kingdom the Archbishop of Cambridge merited him with a doctorate of divinity, and in 2006 he was knighted.

Sacks draw attention that "no religion so high evaluated the word" than through words God created the world, but it must be regarding the text of Tanakh "fraught with background that drive imagination".

8) TANAKH'S METAPHOPRS of 'GOD'S'- WISDOM INFORMATION MATHEMATICS

In Tanakh we find evidence on the importance of divine measurements, such as "*Who measured the waters with the hollow of His hand, And gauged the skies with a span, And meted (measured) earth dust with a measure, And weighed the mountains with a scale And the hills with a balance? (Isa. 40:12)...*", "*The nations are but a drop in a bucket, Reckoned as dust on a balance...*"; "*All nations are as naught in His sight; He accounts them as less than nothing*"(Isa. 40:16-17); "... *He who sends out their host (army - in Hebrew Zvoo, multitude) by count ... because of His great might and vast power ...*" Isa.(40:26); "*Do you know who fixed its (earth) dimensions? Or who measured it with a line ?...*"(Job, 38:5) - [such fantastic calculations, viz. mathematics, inclosing geometric measures, perceivable rather due a digital approach in a framework of a some like cosmos computer].

Notably, that Maimonides thoughtfully turned the attention that many propositions and predictions made in the Scripture "based on the nature of numbers and the properties of geometrical figures", expressed as knowledge of physical and astronomical values of God's works (Guide, p.1,ch.23). Moreover, is reasonable to recite once more his claim that 'the things in the heavens man knows nothing except a few mathematical calculations, and you see how far these go'(Guide, p.2, ch.24). That generally was in common with the 'Saying of our Fathers' (Avot, III, 18) - '*Astronomy and geometry are supplementary to Wisdom*'.

For reason given God deserves also a metaphor of a geometer.

On this base selected towering mathematicians perceived God as a mathematician. Such an metaphor sprang from Leopold Kronecker's (1823 - 91), saying that the integers created God, the other - the man. Sir James Jeans (1877- 1946) even stated that God is a mathematician, shared by the physicist Gregory Benford (2006, cf. further).

The eminent mathematician Hermann Weyl (1885-1955) also wrote that the 'world is not a chaos, it is cosmos , harmonically ordered through strict laws of

mathematics, and the source of the lawful mathematical harmony of the world is God' ('The Open World', 1932). Besides, he insisted that the 'realization the world, as it came to us from God,...could be receivable only through symbolical constructions', that solely plausible in mathematics and physics.

The notion in its sense overlaps with the considerations of Karl Gibson, an Rev. of the Humanities and Science at Princeton, that tackled with the insight 'Is God a Number?' (Sci. Theology News, April, 2001). The author point up on several observation upon the harmony and beauty of the nature, that lead us to theological implications, towards a vision that God is a Number. Complementary Wolfgang Achtung (Ibid. April, 2004), attempted to show that God is a geometric.

The today's one of the most acclaimed mathematicians and physicist John Barrow considers that mathematics is the only religion is enabled to prove itself as a religion (Idem. 'Theories of Everything', 1991).

Rabbi Gunther Plaut in 'The Torah' (1981, 2006), published by the Union of American Hebrew Congregation, laid emphasis on the use of numbers in Torah, as a reflection of the ancient society that numbers are concerned with the inner nature of the subject that is numbered. 'God is seen to be in charge of the secret of numbers', and only He may dispose of the use ("Introduction Genesis").

Divine numerology -imaginable as a coded information upon creation of the Universe

Consequently, the divine voice signals had been perceived by Moses [respectively by the open minded authors of Tanakh], likely as words fulfilled with a density of coded information in the guise of hind-sights, subtleties, reaching even to the very shapes of the letters (Nachmanides "Commentary on the Torah, Genesis 1:1-4)). He explained that the Torah was written explicitly, or in an implicated manner using not only the numerical value of letters, but also their shapes, bent or crooked, or their crownlets.

Besides, the Rabbis of the Talmudic era (Palestinian Talmud, circa 450 BCE, and Babylonian one, one century later), really tackled with hidden meaning of the sacred words, viz. of metaphors by manipulation with their numerical value, namely *gematria* (a system of numerology used for biblical interpretation of the hidden aspects of Torah). Strikingly that already in this biblical period the sages, and especially later the kabbalists used numerology for decoding sacred words of metaphors, a far prototype of such digitalizing compressed information algorithms. By guessing in this direction we can even envision that sages for decoding the numerological meaning of sacred metaphors, naturally applied their own computerized mechanism inbuilt in mind of the human being (a view of the major foremost scientists, cf. below).

Thus the pioneers of Kabbala, commenting the Torah, in their works published in the 'Creation Book' (*Seifer Yetzirah*"), the first known kabbalistic work, attributed to either Avraham or Rabbi Akiva, Ben Joseph, c. 15- 135 CE, (in P. Berg 'Kabbalah for the Layman', 1985, 2005)), hinted that the letters of Hebrew alphabet and its numerical values also served for recording the information of Divine words on Creation. That points also had been found in the comments of the Torah of Nachmanides (13th century), Moses de Leon (13th century 'The Book of Pomegranate', R. Elliot ed. 1988).

The Israeli eminent rabbi Michael Laitman, the co-author of 'The Science of Kabbala' ((1984-2002), in his lecture "Kabbalah As A Disclosing Principle of the Universe", on a panel of Russian Academy of Science (January 17, 2004), also insisted that every process starts by a suitable information signal, which is perceivable through a computable complex of numbers and letters programs(in A.Kozlov, News, January 29, 2004, in Russian, Israel).

This is consistently with the kabbalah's interpretation of the Pentateuch (Torah),

that God created the world through letters and numbers”(D. Matt “The Essential Kabbalah”, 1997).

Whereas the popular atheist and the founder of the magazine "Skeptics" Michael Shermer, ferociously exposed versus Michael Drosnin's book "The Bible's Code" and other decoders of Hebrew Bible of the Hebrew University, Jerusalem (professor of mathematics Y. Crips and his team), by using computerized program of equal - distance verses deciphering. Shermer reviewing the work in an essay "Decode the Bible 's Code" (Skeptics, July 23, 2007), assigns it as a some manipulation numerology that claims that in the original Hebrew of Pentateuch are hidden messages of sensational predictions of historical events of our days. That serves a supreme example of pattern - seeking and find due pseudo - scientific tools.

Nevertheless, the recited above metaphor "*God's mighty voice words...*" sounds vibration could be imaginable as coded into a numerical version primacy information, and the appropriate sentence supplement - "*...out of the fire*", indicated on its available energy source.`

Compliantly, the mind elite, the composers of Tanakh and its interpreters being enriched by intuition and inspiration insights of an unique God that as if sends a message of Creation, it perceived than thoughtful, faceted metaphors for the Israelis. _ On the one hand, the competent message had been moved "*in the language of man*", understandable for naive, just freed slaves from Egypt. On the other hand, it were decodable as metaphors for the most educated human beings of future generations towards the next 3000 - 4000 years, respectively in favor of the modern cosmology and physics achievements.

PART FOUR. WISDOM'S MATRIX PURPOSIVE EMERGENT INFORMATION GUIDES A SELF-ORGANIZE OF UNIVERSE, ITS BIO-FRIEND LAWS, and EVOLVE of HUMAN MIND'S WISDOM

1) WISDOM MATRIX PURPOSIVE INFORMATION LAWS OF UNIVERSE, LIFE, EITHER GOD-WISDOM'S, or NATURE'S WISDOM, STILL UNEXPLAINED

There we find for relevantly to beforehand the issue with a concise overlook of current literature on the notion 'information matrix' or 'matrix of information' in representative scientific researches, though we prefer to use the term 'template'.

Above all are findable a series of impressing works of an obligate use of Fisher information matrix as a certainty certificate and guide for reliability of revealed results.

Among them is an invited review of highly competent cosmologists - Joshua D. Friedman (Fermi Nat. Lab., Batavia, Il.), Michael Turner (University Chicago), and Dragan Huterer (University of Michigan), on the issue of dark matter, accelerating universe, and Lambda (for the Annual Review of Astronomy and Astrophysics (arXiv 0803.0582, v.1). Their conclusion is that the applied information matrix is a quick and easy way estimate and control the parameters of cosmology and the observed quantities.

So also the research G. La Vacca, L.P.L. Colombo (University of Pavia,, It.), show that the named information matrix helped to compare the power of anisotropy, and polarization of CMB (Public J., April 2008), whereas Derek Dolney et al. (University Pennsylvania, and Tohoku University (Japan), explored the information matrix analysis constraints on the growth rate relative to that for a flat, matter - dominated Universe.

About a Matrix universe information conceded also Seth Lloyd, the illuminated expert in computer sciences at MIT, in his best - seller 'Programming the Universe' (2006). He argued about an existence a some robotic overloads of the

Matrix universe, that most likely to be powered by a universal quantum computer.

In his turn Andrei Targowski, professor of business information system at Western Michigan University, and President of the Intern. Soc. of Comparative Civilization, with his college of the University Ali Metwaili, offers a fundamental monograph "Information, Technology, and Social Development"(2008). \There they extensively tackled with the matter of an information matrix as architecture, a mold that purposively guides events in the Universe and human life.

On the versatility of the notion (information) matrix that optimize creativity, introduced Steven Pauwels as a patent posted to FreshPatent.com August 14 (2008). The discovery's formulation - a 'Method to analyze and improve creativity generated by a purposive creativity process'.

On the actuality of a matrix from a point of mathematical factorization information in physics and mathematics certifies the organization of a international conference on this topic in May 2008, under Banff International Research Station for mathematical inventions and discovery. That topic nowadays is relevant also in current theoretical physics, in particularly concerns the fractal matrix for organization in nature on a base of fractal geometry, and brain - world scenarios.

Noteworthy that the issue of matrix for quantum physics introduced in 1925 the laureate of Nobel - prize in physics Werner Heisenberg, that called his discovery matrix mechanics, and also alike laureate, Erwin Schrodinger in 1926, called the same matter - wave mechanics. At first, it seemed that they had discovered two entirely different schemes, the former matrix mechanics of quantum uncertainty, and the latter - wave function. Miraculously both schemes works analogously, and quite soon Schrodinger established their equivalence, describing a quantum mechanical universe.

Findable several works also dedicated the issue of quantum matrix: - to regulation function of quantum matrix for getting efficient multiplication algorithms even when the results has few nonzero entries (Harry Buhman, Robert Spalek(University Amsterdam, Symp. Discrete Algorithms, p. 880, 2006); - to providing the construction of the quantum of the Hall states of fractional electrons in a direct way, evidencing on a working model of a regularizing quantum matrix(S. Matjanac, A. Samsarov, Zagreb, Physica Letters A, v.351, iss.4-5, p.246, 2006).

The essay "The Quantum Matrix" Raphael Kellman, M.D., referred to John Wheelers idea on a "participatory universe", and it base - Werner Heisenberg's quantum uncertainty theory. In kind with it the observer's human mind consciousness is the crucial actor of registering subatomic particles and thus creating new realities. Consequently, 'our observation of particles literally bring them into existence!' (e-mail service "Thought of the Week", October 25, 2004).

Concerning current point of a revived wisdom concepts, it encompass the apt issues founded on quantum matrix factorization and purpose regulation of algorithms in mathematics concerned with quantum physics, and the latter itself.

As regards the existing laws of the Universe and biogenesis, the leading authoritative theoretical physicists and philosophers, discuss about a nature of apt laws, while unknowable, and even they come from?.

The most renown investigators of the issue of essence of the laws of Universe and live Nature are the renown scientists Stephen Hawking, John Wheeler, Paul Davies, John Barrow, Nicholas Short.

Hawking recently in an interview to Eben Harrell on the planned by him and his daughter Lucy to write a 'George's Secret Key to the Universe', the first in a trilogy of novels directed to children, he also shared with that 'The universe seems to have been selected from a large class of possible universes by the fact that it contains intelligent beings who can ask the question: What is the universe like?

The universe is not indifferent to our existence - it depends on it (in Time, October 8, 2007).

In another interview to Physicsworld.com of December 20 (2007), Hawking summarizes that while the big remaining hard questions in cosmology are: How did the universe begin? What banged the Big Bang? what of dark matter and dark energy? How were laws of physics determined? For research and optimizing the appropriate matter, Hawking in future intends to found a world wide Center for Theoretical Cosmology.

Remarkable that already Davies in his early books, e.g. "Mind of God"(1992, 2001), found that the properties of nature's laws are just analogous to attributes of God, respectably : - universal; - absolute; - perfect; - omnipotent. Still, later Davies (2005,6), in accord with his tutor John Wheeler, explains that unchanged are those laws that renders correlations between states at successive instants, than a state is not an fix event. The concept had been accepted also by Lee Smolin (2006).

Further, he admits that still exists some deepest questions "The laws themselves remains unexplained, where do they come from? why do they exist at all? could the universe have been otherwise? overlapping with Einstein's quest - whether God had any choice in his creation. Davies underlines that such problems transcends all science, than it is finding out how the world is, but the meta questions could have been different (Davies site cosmos.asu.edu,2007; in Edge 'World Center Questions', 2008).

Recently Davies offered a thoughtful essay entitled 'Where do the Laws of Physics Come From' ? (2007), where from three formulations on relations of information and Physics, we, as likely he himself, prefer a radical formulation: *Information -> Physics -> Matter*, that is in terms with the ontological scenario of origin and evolve the Universe and Life.

Its essence that the density of information is infinite as its acts in a some resource of infinite Platonic realm, and bio-friendly laws "were made by an unexplained transcendent pre - existed God, or are a product of natural god or godlike superintelligent that evolved in an unexplained prior universe". The latter version is comfortable both for us, and rather for Davies, as generally it is likely from all his works, save " The Goldilocks Enigma" (2006,7).

Moreover, Davies shocked the scientists society with his essay on that issue in The New York Times of November 24 (2007), where from a position of a healthy skeptic he asserts that as the physical laws are still unexplainable come from, so also the God is unexplainable. And until science lacks a testable theory of laws, claims that it is to "be free of faith is manifesting bogus".

The idea about God a Lawgiver more categorical was declared by Nicolas Short, the winner of NASA Goddard 2003 excellence Award. In his Letter one (2000), in the frame 'Remote Sensing Tutorial', he proclaimed that 'God is a Scientist', declaring fundamental laws of the Universe (which vary with time or circumstances). He also *calls a 'God - Scientist' as an Ultimate one, the One modus operandi that governs on our Existence* (both on the material and spiritual, i.e. ideas), hence responsible for all the knowable. Concurrently, Short remarked that after thousand of year emerged the notion of biblical God - a lawgiver.. For the matter, the astronomer Hugh Ross likewise predicates God as a Lawgiver ('The Fingerprint of God',2005).

In the same province were the contemplations of rabbi Gunther Plaut ('The Tanakh', 1981,2006), and rabbi David Nelson (2006).

Ever so Nelson envisioned the dependence of origin and evolve of adaptive laws of the Universe and Life as integrative components of a unique system with God's fractals, whose interacting machinery, as we imagine is wisdom information.

Strikingly that mathematical (geometrical) structures as one of information expression of such or another symbolic system, is an optimal framework for physical laws of nature. Einstein was convinced that 'All the preceding experience persuades us in that *nature* represent itself through realization of most simplest *mathematical elements*'(Einstein. Coll. Scientific Work, ' On Method of Theoretical Physics', t.4, 1964). The idea is in concord with the now usually in the way the thought that the laws can be embodied in smart mathematical relationships (Davies, 1992,2001).

Noteworthy, that Sir James Jeans(1877-1946), the pioneer on the issue of stellar structure and the origin of the solar system, declared that the universe appears to have been designed by a 'pure mathematician'("The Mysterious Universe", (1931), that overlaps with the metaphor of Short (2000) that God is a scientist, inclosing mathematician.

One of the foremost mathematical cosmologists John Barrow, a theist, testify that one of religion icons is mathematics, and presumably there exist a 'cosmic Code', especially for optimal information transfer through a digital code. For him is enigmatic that the world is describable by mathematics, and so more amazing that by means a very simple one. Hence his *religion is mathematics* ('Theories of Everything',1991).

In this context may encompass the view of Davies that life is a basic chain linking it with the cosmos machinery due to 'resonating with the hidden mathematical order that make it tick'(in Edge 'The World Question Center', 2005).

Another facet of reality and underlying its laws submitted David Chalmers, the professor of philosophy, and head of Center of Cognition Research at the University of State Arizona, we referred above. It is based on some *matrix of purposive information* that related to a computational hypothesis in a framework of metaphysics. God hypothesis can be seen than a version of that Matrix Hypothesis (J. Philosophy, March 2003).

Regarding that the offered matrix is based on input and output of adequate information for computerizing, as it described Chalmers, that information is compressed as algorithms, consequently the matrix works through information algorithms.

In some sense that expression is in common with that of Rev. Sir John Polkinghorne, a quantum physicist, delivered at a discussion with another preeminent physicist Christian Isham, a Catholic and outstanding expert in quantum gravity, in Faraday Institute for Science and Religion at 2006, The former explained that as a physicist he believes in unseen quarks, as well believes in unseen God. And the believe is a result of input of adequate algorithmic information.

In this context may be encompassed the view of Davies that life is a basic chain linking it with the cosmos machinery due to "resonating with the hidden mathematical order that make it tick"(in Edge 'The World Question Center', 2005).

That is in common with Davies assumptions that the mathematics and nature are intermingled, that also overlap with the discussion issue of Max Tegmark 'The Mathematical Universe' (Beyond, v.1, 2005). Furthermore, Tegmark claims that the core of our reality are numbers shaping the cosmos, life and ever everything (New Scientist September 15, 2007). Notable, that mathematics in its essence is also a special version of information.

Consequently, Davies (1991,2001), suggests mathematics even is capable to formalize the laws of physics managing the devices which compute them. And on

the quest 'why are the fundamental laws of nature mathematical?', he offered a trivial answer: 'Because we define to be fundamental those laws that are mathematical'

Davies even proposed that life is information written into the laws of nature, and 'a complexity law might actually create information, or at least wrest it from the environment and etch it into a material structure' ('The Fifth Miracle', 1998, 2003).

Recently, Davies spoke about an idea of 'cosmic creativity', that 'began with the Big Bang (BB)', and the intelligence is quite a small branch of the cosmic creativity (New Scientist, October 29, 2005; Beyond, online, 2006). In the latter work he viewed life in terms of information processing that lead to life entities of different complexity, whose pinnacle was the human being consciousness.

Furthermore, he draw the attention that beneath the complexity and diversity of nature is perceivable some sort of basic building blocks that emerged from ancient philosopher learning about atom. Now it is decoded as composite bodies with bit and pieces inside than quarks and electrons (Science Show, August 12, 2006).

2) WISDOM'S EMERGENT INFORMATION AGENCY DECISIVE FOR INCREASE OF SELF- ORGANIZE of the UNIVERSE, LIFE and HUMAN MIND

The phenomenon '*Emergence*' since the early 20th century had a long - term history, The notion as 'something new, a fresh creation that emerges' instead of evolving from physical elements, introduced the English philosopher Samuel Alexander in his "Space, Time, and Deity" (1920), and another English philosopher C.D. Broad accentuated the unpredictability of emergence (in his collection of lectures of 1925). Then in the late 1980s and 1990s, started a boom of emergence literature. The pique of interest in the notion of emergence began in the 2000th years with the works Steven Johnson (2002), and Harold Morowitz that underscored the generalized role of emergence as a 'connective line of ants, brains, cites and software', viz. everything. So the latter's book was entitled 'The Emergence of everything' (2004).

The now the most accepted definition of *strong emergence* is that induce down causation as a result increased combination of new elements in complexes, promoting an emerge of new properties not present earlier, in simpler stages of complexifying. For the matter a version of emergence phenomenon is a weak emergence that is also unpredictable, but save causal capacities.

One of the most passionate propagator of the notion are Paul Davies, Philip Clayton, an Ingraham Professor of Theology at Claremont School of Theology, and professor of philosophy and religion at Claremont Graduate University (both California), William Hasker, an emeritus professor of philosophy at Huntington University, Ind., and Michael Silberstein, an associate professor of philosophy at Elizabethtown College.

In the "Physics of Downward Causation" (Beyond, website, 2006), Davies perceives "emergence" events that runs towards self - complexifying, than some high level concept, analogical to the high level essence of information. One of such high - level insights of Davies is the faint 'Life Principle' (extended to a 'Mind Principle'), i.e. principles of self - growth of life and mind inbuilt up deeply in the fabric of the BB - Universe.

Even so Davies feels that such thoughts are on the boundary metaphysics. He himself admits 'if I am to be honest I have to concede that this starting point is something I feel... maybe that is a religious conviction of sorts'.

The appropriate philosophical and even metaphysical religious overtones above all led Davies towards a bold but indistinct vision of some "Life Principle", that

were underscored by selected reviewers in the framework of "The Goldilocks Enigma" (published in UK, and its USA version "The Jackpot", as critics of the books on the Amazon.com.uk website).

So Thomas Spencer (Chapel, Hill, NC, August 6 2007), perceived the "Cosmology" of Davies than unveiled philosophy of science, especially in relation to the hypothesis of a self-explained universe, that while is not testable. Still the quantum theory itself is not far of philosophy. Stephen Smith (Pleasant Hill, CA, USA), the author of 'Trinity: The Scientific Base of Vitalistic and Transcendental', finds that Davies insight of a certain 'Life Principle' is conceivable as vitalistic, and some of the later thoughts such as 'a designer of laws of nature... have such astonishing creative ability...', require a leap of faith.

Incidentally, the Life Principle in a certain sense resonates to the distinguished philosopher and evolutionist Henri Bergson's (1859 - 1941), popular posit that the life evolution is driven by an original impetus of life (the '*elan vital*') creative force ('*L' Evolution creatrice*', 1907; or "Creative Evolution", 1911).

One of Davies critics Anthon Campbell (ww.acampbell.org.uk), considers the account of creation of Davies than a pantheistic one, that is in common with our impression.

The 'Life' and 'Mind' principles could be ranked among other while undiscovered high - level concept overarching principles, as also the 'principle of increased complexity', that proposed by Davies (New Scientist, October 29, 2005), and called it than the 'fourth law of thermodynamics'.

He proposes that just such principles govern the transforming of a 'stupid' clod-like particles in organized supercomplexes, for one human consciousness. So also his weird notion 'cosmic creativity' is on a border of a philosophical principle.

The last time Davis even strengthened the spotlight on the introduced by him 'Life' and 'Mind' principles than the most obvious way to find a link between life and cosmos. Though this assumptions lead to teleology that is incompatible with science ideology. Still he underlines that if accept life and mind seriously than it is fundamental along with the feature of bio - friendliness, rather as incidental event of the universe. Besides, biology and physics co - evolves in favor of apt principles operating upon the multi - level top - downwards.

Consequently, the proper Davies theory's cornerstones is a complex of life and mind, goal and purpose, emerging in a law - like mode from a dynamic universe. Eventually, his crucial posit that the life and mind, laws and universe are imaginable than common products of an overarching principle. He regards that emergence of life and mind, and it understanding is all part of this "great cosmic scheme" (Davies interview to S. Paulson, Religion Salon.com, July 7, 2007; Arizona Republic, June 24, 2007).

For the matter, competent laws are not fixed, malleable, but nevertheless inherently 'bio - friend', with a potency of 'cosmic self - sufficiency'. Whereas, quantum physics opened the path to a "retrocausation", whose parameters at the origin of universe, shapeable by future moments due to observers consciousness in kind with a 'quantum post - selection' event.

3)THE CONCEPT OF EMERGENT DOWNWARDS CAUSATION-a GUIDE for INCREASED COMPLEXIFYING of the UNIVERSE, LIFE and HUMAN MIND

At heart, the first who launch a fruitful thought that "more is different", i.e. that some things are more than the sum of their parts was the Nobel-prize co - winner for physics Philip Anderson. The idea was hinted already by the English philosopher George Henry Lewes, that first gives the word "emergence" as a philosophical meaning in "Problems of Life and Mind"(1875). then the Nobelist

Henri Bergson defend vitalism as a creative force, the view that the vital creative force is necessary to explain the evolution of life ("Creative Evolution", 1911).

Ever so the issue "Emergence" most explicitly discussed and unfolded by the Nobelist for physics Robert Laughlin and David Pines(Proc. Nat. Acad. Sc., v.97,,p29,2000; Laughlin et al. Ibid.p.32 and Laughlin " A different Universe: Reinventing Physics from the Bottom Down"(2005); as well as by George Ellis (Physics Today, July 2005).

Among the bright notions of Laughlin and Pines were the term "protection" of collective organized behavior expressing the evidence that though disorderly behavior at the atomic level of quantum physics, may result a precise behavior of large objects. The higher organizing principle regulate the emergent physical phenomena:
- low-energy excited quantum state; - quantum criticality phenomenon, namely transition phase.

They predicates that the central task of theoretical physics to understand the emergent behavior in many guises, including live itself. Besides, Laughlin(2005) argues that a certain levels of complexity new laws of physics emerge and manage the behavior. That is also related to the development of the Universe, and above all, to space-time vacuum the models than quantum process, where individual particles spins organize in highly correlated into a collective wave function with fractional quantum spin number. That drives emergence new physics laws.

The Nobelist Philip Anderson(the Princeton University) highly appraised the monograph of Laughlin (Nature,v.434,p.702,2005), underlining that the leading motive of the works "the triumph of emergence over reductionism". Consistently, the reviewer shares with his explanation of the thesis that large objects such as human of what ought to be done. The core of the regulation mechanism of such living systems are emergent multilevel feedback control loops. Causality in such systems are expressed through top-down, bottom-up, and same-level control systems. In that case the dominant role play the mind's control of the causal hierarchy, involving choices, intentions and emotions. Such creations of the mind after the Big Bang "are clearly not random" (G. Ellis, J.Torotchuk, in "Consciousness and Emotion", N. Newton, R. Ellis, eds. ,2004).

Meanwhile Davies considers human being is the product of principles of collective behavior don't reducible to the behavior of his elementary constituents. Accordingly, for understanding the organization of high complexity it takes emergence laws. Thus Laughlin substantiates a new Age of Emergence.

The in the way posits of self - organizing and self - replicating attributes of live nature heats the headlines. One of its fervent advocates are Stuart Kauffman, and Davies.

Kauffman in his monograph "A Home in the Universe: The Search for Laws of Self - Organization", 1995,6), and in Metanexus 'Views', February 17)2002), argued on his original concept of combination of self - organization ("order for free") and selection. Thus, already in 2002 he wrote on a new science of autonomous agents of emergent complexity and radical creativity of the biosphere and human world. He claimed that in the nature and physics governs laws of self -organization. The selection mechanism starts to work mere when the human being already obtained robust self -organization properties.

On the problem of automatic self - organization lately spoke Neil Theise(Nature, v.435,p.1165, 2005), Harold Morowitz (Science & Theology, July/August, 2006), Phillip Clayton "Mind and Emergence: From Quantum to Consciousness" (2006), and in the Symposium "God, Matter, and Information"(August, 2006).

The core of these automatic processes in a certain sense are related to the popular cellular automata of von Neumann and Fredkin (cf. below).

Lately with emergence physics and biology of complex systems deeply tackles the venerable mathematician George Ellis, professor emeritus at the University of Cape Town (South Africa). In tune with the Nobelist Philip Anderson he criticized the reductionism position on handling complex systems as simple isolated systems, ignoring the event of emergence. Ellis in his referred above paper insists that life and human consciousness are apparent examples of true complexity, with an emergence of higher levels of order based upon modular, hierarchical structures (Idem. in "The Re-Emergence of Emergence", 2006).

He claims that the list of science disciplines representing an hierarchy of causal relations starts with particle physics, then atomic physics, chemistry, and at a certain level of hierarchy the organizing principles differs on its unconscious natural sciences and conscious human choices systems. The latter is governed by the highest level of intention - ethics, that "influences what is done, but addresses the question that the changing laws, are rather additional laws,

That "organizing principles" emerges out a dependence of various levels of complexity. This critically point is called "strong emergence". This type of emergence distinguish by irreducible causal capacities as in the phenomenon consciousness.

Such higher level emergent laws works at the critical point of the emerge of a complexity macroscopic "classical world" from its base - the microscopic quantum mechanics. The emergent laws are new one and not coexisted in ghostly superposition of entanglement complex particles spins laws of physics. Such emergent laws exists as nature's single macroscopic reality.

Moreover, Davies argues that in the evolve of complexities non-physical causes spring forward. In recently published paper "Emergent biological principles and the computational resources of the universe" (Complexity, v.10,p.1), he proposed an experiment to transform from quantum level to classical, that might work at about 400 particles in spin-entangled states. He hopes that the scientific progress allows to carry this crucial test the next few decades (In Matt Donnelly, Science & Theology, March, 2006).

Adequate high level emergent laws of additional organizing principles are also necessary at the critical transition phase of the base pairs of nucleotides towards giving proteins and genes their functionality.

Thus, Davies is in common with Wheeler, conceding that the laws of physics are unfixed "into their present form as the universe expands from an initial infinitely dense state". Hence the laws of physics are continuously propelled by the changes of hot Big Bang (Davies, 2005).

He also claims that physicists are at a circle what is the driving force of a turn of coaxing clod - like particles of matter toward organized complexity.

Davies considered that the key role of such type of complexity may be a fourth law of thermodynamics (New Scientist, October 29, 2005). Presumable that beneath complexity and diversity of the nature works some simple fundamental buildings blocks consisting of composite bodies with bit whose genuine elementary are quarks and electrons (Science Show, August 12, 2006).

He ponders that the slow evolution of multicellular live entities and its top-intelligent one is only a one path of *cosmic creativity* (New Scientist, October , 29, 2005; "Emergent Complexity Teleology, and the Arrow of Time" in Re-Emergence of Emergence, 2006). Furthermore, he too contemplates that at the chaotic Planck era was no "cosmic DNA" to guide its future evolve, and since the primordial Planck era started an unidentified *creative force* that acts perpetually to overcome the chaos towards an ordered Universe through complexity and self - organizing ("The Cosmic Blueprint ", 1988, 1994). Correspondently, the Universe and live

Nature are governed through a "crucial quality of *contingent order*"

For the matter, in the aforementioned capital compilation "Science and Ultimate Reality", dedicated to the ninetieth birthday J. Wheeler, its sixth part was introduced under a general topic "Emergence and Life", were published a series of works: Phillip Clayton "Emergence :Us From It"; Marcelo Gleiser "The Three Origins: Cosmos, Life, and Mind", Shou-Cheng Zhang "To See a World in a grain of Sand".

Clayton and Davies were the editors of a more representative collections of papers dedicated to the various aspects of emergence under the title "The Re-Emergence: The Emergenists Hypothesis from Science to Religion" (2006).

Between the most original works was that of Davies "The Physics of Downward Causation"(Beyond website, 2006).

In a work "Mind and Emergence: From Quantum to Consciousness" (2004, 2006), Clayton, an Ingraham Professor of Theology at Claremont School of Theology and a professor of philosophy and religion at Claremont Graduate University (both of California), explains the explosion of interest in emergence with the limitations of reductionism that most evidently are shaped in the last decades.

Emergence primary grounds is that reality is not static but in a continual development. Further its pillars are that the ongoing evolution generates genuinely new things, and the reality consists of fundamental particles and forces that acts in distinct level being both codependent still manifests in its own patterns and distinct forms of causation. Besides now scientists traced the complex interplay of genetics and environment expressed in emergence phenomena. The phenomenon of emergence in adequate physical conditions, generates new properties, entities or laws with novel causal powers of reality.

Further emergence offers an explanation how natural selection pushes the complexity, for one of biological entities, as also the tend of the nature from simpler entities to increasing complexity (Idem. 2004,6; "Modification of a Paradigm", Science and Theology News, March, 2006).

Hence the rendered review of research substantiates the thesis of Wheeler and Davies(2005), that the laws , or its components, fundamental constants are conditioned by adequate states. Additionally, Davies contemplates that the universe has never ceased to be creative through a succession of self-organizing and self-complexity processes, the base of his hypothesis called the "fourth law of thermodynamics (Idem. New Scientist, October 29, 2005). Its essence is related to the necessity of emergent information for changing of laws of the physical and biological world, regarding that each life entity contains the seed for reproducing the next generation of a more complex life form entity, and ultimately - its pinnacle, the human mind's consciousness.

Furthermore, he suggest that the human being through a mere observation help to shape the laws of physics even billions years ago rather by means of a some gigantic computer of the universe, and the laws are a product of information algorithms. Imaginable that in such computer take place an input of adequate information data, it processing and deliver out data.

Accordingly, "the universe is a big information processor" of emergent event, and "we live in a universe that's deeply imbued with meaning and purpose, that not different of information processing", embraced in a grand cosmic plan or schema (Davies in an interview with Steve Paulson posted to Salon.com from the Templeton - Cambridge Journalism Fellowships in Science and Religion, of July 3, 2007).

One of the emergent laws contributions is making abundant carbon the ground stone of life, opening the way for the emergence of diversity of species and observers mind consciousness.

In another interview of Davies to "The Arizona Republic", of June 24, (2007), he

underscored that the emergence of life and mind and understanding is just a part of aforesaid great cosmic schema. He believes that the physical laws, mathematics, life, consciousness - the observant mind, and the physical universe as co-emerged and co-explainable.

Nevertheless, though in the issue of origin of life we're making progress, "but it's still deeply mysterious. And the origin of consciousness we're absolutely lost. Not a clue"

God's does play dice' being limited through quantum physics randomness

In a paper "Does God Play Dice?: Insights from fractal Geometry of Nature" of Carr, an emeritus professor, the leader of the Computer Technology Branch of the Air Force Res. Laboratory, Hanscom, MA, published in *Zygon* (v. 39,p.933, 2001), was argued that God plays dice with the Universe.

Carr considered on an existence of a balance between randomness, chaos and global determinism. The polarity of randomness (or freedom) and law characterizes the self-creating natural world. He held up that chaos, randomness of the weather, stock-market, etc, underlying an order, described by fractal geometry (cf. further), notably chaos sides order. Carr cited Joseph Ford's new metaphor in replace of the old "God plays dice with the universe but they're loaded dice".

We are even in terms with Paul Carr's pondering on the role of fractal geometry and randomness and purposefulness of the evolve of nature.

Strikingly, that in Episcopalians (i.e. Protestant Episcopal Church) "Catechism of Creation", p.II, prepared for study in Congregations by the Committee on Science, Theology and Faith (updated February 21, 2006), is predicated that "God does not dictate the outcome of nature's activities, but allows the world to become in all its diversity". The process is in tune with a continuous creation in a frame of evolve of the Universe and the human beings.

God also allows the evolution of the physical laws, and selection given to life to take cosmic and biotic evolution in whatever direction.

The "Catechism" offers also the view of the physicist and theologian Howard Van Till, that God creatively and generously opened all the evolve directions power and capacities of the universe and live nature already in the formulation of "*In the beginning...*".

Eventually, God is rather has a purpose than a fixed plan, a goal rather than a blueprint (Episcopal Church website), that perhaps followed consistently to a similar motive in Rashi', that the heavens were created in a "flexible state", hence changeable, malleable (Talmud, tractate *Chagigah* ,p.12a).

The aforesaid "subversive" deliberations of rabbi Nelson was in tune also with the contemplations of Sir John Polkinghorne, the noted ex-particle physicist, Rev. of Anglican Church, Dr, fellow a former president of Quinn's College at Cambridge, an author of "Quantum Mechanics" (2002). In the last decades he turned an advocate of a "top-down" holistic model of divine causality through imputing "active" information at the level of chaotic systems. Considering quantum uncertainty divine action "unfolding improvisation and not the performance of an already written [divine] score. Consequently, it predisposes to "divine order and contingency".

Accordingly, Polkinghorne accented that in our information-generating universe God is understood than working behind the scenes in a guise of "hidden" spirit by imputing "information within its open history". In that frame "God is mutable, continuously adjusting his plans in light of development in the world (Idem. "Science and Trinity",2004).

The ideas of the latter partially overlaps with the thoughts of John Haught, professor of theology at Georgetown University, Washington, one of the most

intelligent voices in the whole science - religion debate. His book "God After Darwin: A Theology of Evolution" (2000), proposes a God who is the wellspring of novelty in a still unfinished universe, though his theism does not oppose the biblical outlook. His God refuses to be a controller of the evolve of the Universe opening to it the path of evolution to infinite possibilities of promising unpredictable and self - organizing events.

The God of Haught juggles chance over immense stretches of time, and being inspired with a biblical insight of the future, he provided a suitable framework for both evolutionary science and the religion quest for a meaning.

To the same province is related the work "A Random Universe"(2005) of Richard Colling, a professor of biology at Nazarene College, that also uses randomness to unite evolution and creation.

This in some sense a counterinductive idea inspires the people of the modern time, to an unordinary insight that God created the universe through random events, namely random design. In such context Colling sees God as a patient crafter of endless forms "nurturing the novelties that emerge from nature's randomness, but creative processes". He call attention that the elegancy of random design resides in its underlying simplicity and versatile. The design components are: 1) an *energizer*, that through disorder, crucial for creation of order, imparting to the world an essential directionality to the nature. Disorder and randomness is actually a key ingredient enabling life; 2) a *combinatorial mixer*, that continuously generates vast repertoire of buildings blocks from which higher order and structure, especially valid for biology, like combinatorial mathematics. Those combinations best suited for a particular function are then sequentially selected.

A higher order of random design is seen in the billions of cells in human cells - a randomness for cellular communication. Thus, the randomness - an evidence on a purposeful, coherent creator, God who fashions the laws randomness for a divine purpose, regarding that such destructive laws that fuel creation.

Noteworthy, that Haught in his turn concedes that the mind of the Creator and of the human being communicates across the globe through thin air with cryptic information codes embedded deep within random cosmic noise.

The matter on the play of randomness and order in the origin of the Universe, echoed in the issue on the interdependence of necessity and contingency, mentioned in some way above. For one the philosopher of theology Keith Ward ("Rational Theology and Creativity of God, 1982), suggested a complex model for God, acting in both paths of necessity and contingency. Such God exist as a necessity, nevertheless limited in his creativity, including elements of openness and freedom.

The apt suggestion is in consonance with other top theologian - Paul Tillich and philosopher of theology Alfred Whitehead.

Thus, Whitehead's philosophy central point is that God is responsible for ordering the world, by providing various potentialities which the physical universe is then free to evolve.

On the imperfect Universe spoke also Gerhard Shroeder (1997) and Phillip Clayton (2004).

Notable, that is also introduced a notion of a "new God" that is compatible with the latest science achievements, especially with the uncertainty of quantum physics that limits its providence. The idea was offered by Mitchel Silver, a liberal Jewish thinker in his book "A Plausible God: Secular Repetitions On Liberal Things" (2006). The reviewer of the work Joel Marks, the moral columnist of Philosophy Now (magazine of ideas), where Silvers' work was analyzed (June, 2007), questing the modern atheism is it compatible with the "New God", or "No God". The work of Silver evidence that the secular, liberal thinkers are consistent with a

God, limited due the quantum physics.

In a certain sense the last works of P. Davies also evidences on the limit of potentiality of God's creative wisdom, particularly in the evolve of Universe and live nature. In his thoughtful work "The Goldilocks Enigma" (2006,7), on one hand is insisted that the world was inevitably purposeful designed, but for the other hand, the evolve of the structures of the Universe and diversity of life works by choice and random. Respectively if God was the designer of all around, "he acted at the distance" (the impression of the reviewer of the book in "The Guardian", January 6 (2007). Consistently, our discovered God or his metaphor - wisdom matrix seed's emergence information in a reality of quantum uncertainty purposively generalize a growth of the Universe towards the Live and ultimately human mind's Consciousness, its shaper, co-creator.

The appropriate assumptions are in common with that of the scientist Collins, Davies and theologians Whitehead, Polkinghorn, enthusiast of modern physics Rabbi Nelson, and the cosmologist Joel Ptimack's interpretation of Kabbalah.

The suitable deduction was challenged by the posit that the world is neither wholly determined nor arbitrary, viz. an amalgam of chance and choice or "Law without Law" (J. Wheeler), and contingency and necessity correspondents to attributes of a God (P. Davies "The Mind of God", 1992,2001).

4) TANAKH'S METAPHORS of WISDOM EMERGENT INFORMATION of STAGE-LIKES STATES of UNIVERSE and LIFE

As some prototype of stage - like emergent events submits the narratives' metaphors of creation the Universe, life and a man, described in Gen(1:1-28;2:1-3-)

Such key stage -like emergent processes were the creation of *energy* ("darkness"), "darkness" - "fire" (Deut.5:20. then succeeded a *command of information* "Let there be light", that along its energizer value also serve as the best transmitter of information.

— Afterwards, followed the *complexes of cosmic structures*. and on the third day started *activities of seed bearing vegetations, and a fertilize acts of reproductive life entities*, that finished with the *making the man (sixth day of creation)*. Besides in Gen(2:7) was accented that the *man had been formed from the dust of the earth*. In this context is relevant to cite Gen(2:4), where called the attention to "*Such is the story of heaven and earth when they were created*". Springing from that Tanakh's and other narratives, Eliezer Zeiger, the CEO Torah Science Foundation, interpreted that insights of holy scriptures as authors intuition hints on evolutionary evolve of the world (Torah Science Foundation Newsletter, v.3/1, December 2003).

An indirect clue upon a successive emergent stage - like states of the process of Creation and evolve of the world derives of the Genesis verses (1:1-30), that the Universe, Nature and the Man were created in a rigorous sequential order within the six Bible's day clock, i.e. fourteenth milliard years of our astronomical calculations.

In accord with referred above our interpretation of the commands of God in Gen.1: 3-30 - "say", "let", than an inbuilt divine command coded wisdom purpose emergent information (fractals) for adapting laws for (self) organization and (self) complexifying of the Universe, Life and human mind's consciousness. The appropriates commands of Gen. (1:2,3,6,11,14,20,24,26,29).

Through that Lord command took place an input of high level purpose information for creation first of all energy of "darkness" (dark fire), respectively from infinite "unformed" (chaotic state of primordial potential elements), at a time with creation of *light*, also a version energy and information carrier, as-photons.

The further emergent stages, that does were not chronologically precise, are: *primeval 'heavens', 'earth', 'water', 'expanse' as 'sky', 'Let the earth sprout vegetation: seed - bearing plants... trees... with the seed in it', '...lights...of the sky to shine upon the earth...', 'Let the water bring...living creatures, and birds...', '... the great monsters...', and all ...that creep... winged birds...', '...and wild beasts...and cattle' (livestock), 'And God created man in His image...'*

The our pertinent suggestions are sustained by the referred above thoughts of Phillip Clayton(2004, 2006), the known and prolific theologian and philosopher, that ponders that just by emergence stages God created the world and acts within it.

Thus the live nature started on the third day with a tend of an increasing complexity, from herbs, (on the fifth day) to the creatures moving in the water and flying, and on the sixth day- the beasts and the man. Hints on reasonability of forenamed interpretation are backed particular by the Gen.1:11-12 (cf. above) - *"And God said 'Let the earth sprout vegetation: seed - bearing plants', 'The earth brought forth vegetation: seed - bearing plants of every kind, and trees of every kind bearing fruit with the seed in it'.*

Furthermore, *"God blessed them, saying 'Be fertile and increase, fill the waters in the seas, and let the birds increase on the earth' Gen. (.1:22). Further "God said"...bring forth...cattle, creeping things...wild beast...Gen.(1:24). Then "...God said, "Let us make man in our image..."(Gen..1:26).*

The translator of the Guide from the original Arabic text M. Friedlander, Ph.D. analyzing the content of the part 2 of work, outlined the considerations of Maimonides, that God in the subsequent five days created minerals, plants, animals and the intelligent being(Idem. Analysis of the "Guide for Perplexed", p.LII, 1904).

In the context of emergence linkage with the man was noteworthy Maimonides attention to the attribute that a man is a microcosmos (of the macrocosmos) of the world (cf. above) , that "has been given to man alone on account of his peculiar faculty of thinking, the intellect, viz., the hylic intellect which appertains to no other living being(Guide, p.1, ch.72). He also underscored that "We can only obtain a knowledge of Him through His works"(Guide, p.1,ch.34). and "whatever we know of the thing", "the longer he looks on, the more knowledge does he acquires; he will gradually increase is knowledge till he fully understands the (God's) machinery" (Guide,p.3, ch.21).

Consequently, Maimonides rendered the creation of the proper object than subsequent critical [or *emergent*] steps of the Creation of the World. Besides he noted that in the successive evolve of a animal towards a man there is a stage when *the animal unfolds only in a human shape and form*. Yet such creature has the power of causing harm and injury. (Guide,p.1,ch.7). Notable also the observation of Nachmanides that the human being developed through such distinct emergence stages - inert material, - a plant, - a fish, - a land animal, - an animal with both the physical structure and the power of perception of a human, and finally a man endowed with the spirit of God(Gen.2:7; 1:20,1:24).

The scientific posit of emergency states, in particularly, concerning the states expansion of the Universe, that in some sense parallels with the assertion *"... You spread the heavens like a tent cloth"(Psa. 104:2;" ..understanding stretched out the skies" (Jeremiah 10:12); "He it is who stretched out zaohpon (heavens) over chaos..." (Job 26:70).*

In a similar guise were the commentaries of Maimonides and Nachmanides. Compliantly to the Thirteen Principles of Maimonides, found also in the Daily Prayer Book, Morning Service version "...He alone has made, does, and ever will make thing". Further he interpreted in the guise - "Who renews each day in his goodness all the works of creation" (Idem. In Commentary on the Misnah, Introduction to ch.10 of

Sanhedrin).

Nachmanides interpreting Gen.(1:4), claimed that "God's will not only constituted the universe. His continuing will constitutes the universe at every instant of time (Idem. "Commentary, on Gen.1:4). One of the foremost spiritual authority of Judaism of modern time, the chief rabbi of Palestine A. Kook in his Igrot (No 91, 1986), sustained the version Maimonides., that "In His Goodness, He renews the world on every day..."

In this respect Maimonides supposed that the laws in the era of creation of the man were not fixed, and generally things depends on the will of God, yet not on fixed laws (Guide, p.2,ch.27). And further that the laws of Nature are applicable to things created , but does not regulated due the Creation (Guide, p.2, ch.30).

Dennis Linsay, the author of the popular Creationism Series, offered his version of comment of the verse Gen.(1:8), that :*"And God called the expanse Sky"*. Compliantly to the author in Hebrew "expanse" may be interpreted as "spreading out expanse". Regarding that word "spreading" is in imperfect form, that indicates upon a continuous action. Notable, that this word is find in the Bible only in connection with the physical heavens. On the score of such commentary, he argued that the "Universe is a continuous spreading expanse". Thus, he considers that "perhaps God is still stretching out the heavens(Idem. "Harmony of Science and Scripture", 1990).

Gerald Schroeder that discussed the adequate description of the stages of creation of the man, deliberated it as a guided evolution of life of inert matter towards an accomplished man(Idem. "Genesis and the Big bang", 1991). Comparable ranges of the Creation of the World with that of aforementioned sages, offered Rabbi Schwab (Challenge,2000). Springing from the discussed of the problem in the fifth chapter of *Pirkey Avoth* (Ethics of the Fathers, the "Bartlett's" of Judaism), he insisted that does God not created the world in one single instance, but in ten stages.

In this ethical tractate of the Talmud (Oral Law,4 - 5 CE), was conceded "The World was created with ten expressions". Maimonides commented the apt predication as a indication on the complexity of the world (in P. Forchheimer "Maimonides Commentary on *Pirkey Avoth*", 1945).

On the whole, the discussing of the Bible's sources about stages of creation of the world in the course of its ongoing process, lead to a conjectured deduction that each of such stages indeed were teleological, final purpose emergent events.

For the matter one of the lessons of Genesis accepted by the panel of the Association of Orthodox Jewish Scientists (Challenge,2000), is that Creation is an ongoing process.

In this context are plausible to discuss two works about the Jewish scholars view on evolution. One was published by Susan Schneider, a leader of correspondence program in "Jewish Thought", under the title "Evolutionary Creatonism: Torah Solves the Problem of Missing Links (1984). The second one was a lecture of Chief Rabbi of UK Sir Jonathan Sacks, PhD, under the title The Wisdom of the Torah (the website "Faith", 2001).

Issuing of the interpretations of rabbis of Talmud, Schneider pointed out that in the account of Genesis they distinguish the physical time scale of Creation of the world turned inside and from the moment that Adam eat from the tree of knowledge, the time scale became as we know to-day. Further rabbis teach that "Genesis presents an evolutionary - like sequence of creation whereby each day introduce a qualitatively higher level of life form. Impressing is also the interpretation of Talmud the saying "*Let us make man in our image, after our likeness...*"(Gen.1:26), namely God and "us" - the earth (nature), [or rather nature's laws algorithm) designed than a guide for the mankind, whom He endowed the serve as co - creator of the world. In kind was also the interpretation of modern

orthodox rabbi Samson Raphael Hirsch (1808 -88), that aforesaid in 1:26 is to complement with the words "*fill the earth and master (subdue) it; and rule the fish of the sea, the birds of the sky, and all the living things that creep on earth.* Rabbi perceived the saying as an evidence that God created the world unfinished, endowing the man with an creative intellect as an element of God's image. And thus implement the human being creative talents in perfection of world, as a its co-creator.

The interpretations of the Talmud and rabbi Hirsh of Genesis metaphors on man's obligation to be a master of the world parallels with modern cosmology which evolution was directed towards the human being charged with a role of hegemony upon the live nature and its environment.

Philosopher thoughts sustain the relation of emergent information to theology

The most ardent herald of emergence as a new paradigm for understanding science, consciousness and religion is professor Phillip Clayton. In his recent work "Mind and Emergence"(2004/2006), he underlines that although emergence does not tend to the classical theism, it is compatible with a variety of religious positions. Through the notion of emergence is defended the Christian constructive theology that is compatible with the idea of emergence.

In Zygon,v.41 materials of a symposium "Quantum Reality and Consciousness", that at heart discussed the book of Clayton "Mind and Consciousness" in the context of the author concept of emergence. There was also published the article of Clayton itself "Emergence from Physics to Theology: a Panoramic View" (Idem. Ibid. p.675, 2006). There he reflected on the debate that took place in the mentioned symposium, that the discussion provided a helpful model of what scientists and theologians can and should be involved. Emergentist theories of nature and personhood have entailments for theological reflections in contrast to theological accounts that may constrain an interpretation of emergent phenomena. Towards this response to the four symposiants about his emergence concept, he draw deeper dimensions of the problem of emergence in the direction of its transcendence and immanence.

One of such involved in the debate Imtje Jackelen, ass. professor of the Lutheran School (Chicago), and director of the Zygon Center for Religion and Science, summing the philosophical grounding of the Emergence Theory of Clayton wrote that the theory appeals a potential to explain everything from the behavior of atoms, ant colonies, traffic jams, human consciousness and divine action (Zygon, v.41, issue 3, p.623 -632, 2006).

Steven Crain, ass. professor of Philosophy and Theology, in the same issue of Zygon, (p.665-674, 2006), under the title of "God embodied in, God bodying forth the world", accepted Clayton's emergence concept. Crain explains that like Clayton he adopts a pantheistic perspective although in direction of classical philosophical theism and divine transcendence. He contemplates that is more plausible to exploit the potential of the an emergentist vision of human mentality in a frame both pantheistic metaphor - the world is the body of God, even so complemented by the metaphor - God is the body of the world.

The ancient notion of wisdom also extended Gloria Schaab, SSJ, a professor of systematic theology (the Barry University, Florida) in her "A Procreative Paradigm of the Creative Suffering of the Triune God" (Theological Studies, March, p.63, 2006). There she springing from pantheistic view underscored that the "Matrix of All Being, are *Shekhinah*, a Kabbalah's notion of Divinity's wisdom, a *Sophia* as spiritual creative wisdom. As a pantheist she conceives that the whole of creation and every its part in nature exists in God, moving towards the modern view of a emergent existence of the world due to a rediscovered wisdom.

Striking is the paper of Clayton "Emergence from Quantum Physics to Religion: A Critical Approach" In "Re-Emergence of Emergence",2006). There he contemplates that in terms of the new paradigm the natural history reveals the continuous emergence of novel phenomena of new structures and new organisms with new causal powers. The highest level of emergence is consciousness in the natural hierarchy. Many theologians believe that through this new paradigm were offered new insights into the action of God and God's relation to the world.

The rev. Sir John Polkinghorn ("Science and Trinity",2004) confessed that the last decade plus he was also among the followers of the concept of "top-downwards causation or holistic model of divine causation through imputing of 'pure' or active information at the level of chaotic systems. Such impression sensed also the reviewer of the book Amos Yong, ass. professor of philosophy (the Bethel University, St. Paul, Minn.). The critics was published in Global Spirit, May 5, 2005). Whereas, the pillar of weak emergence is bottom-level laws, the position of biochemist Christian de Duve and others.

The Institute of Religion in an Age of Science has discussed the topic of "Emergence" in summer 2006 and of 2007 on annual conferences. Among the ardent advocates of Emergence Downwards Causation principle are also William Hasker, an emeritus professor of philosophy (the Huntington University) and Michael Silberstein, an assistant professor of philosophy (the Elizabethtown College), the discussants of the conferences, as well as David Allan Larabee, a renowned philosopher.

For us is more comfortable the apt modern physics concept regarding that proper spins of subatomic particles including photons are a source of kinetic magnetic energy that moves wisdom's matrix purposive information algorithms evolving chain reactions of (self)-organizing on the path of highest complexes of the human being, particularly of consciousness.

Consequently, already the authors of the Hebrew Bible and its commentators rendered the act of Creation as a subsequence of emergency steps evolved by changing regularities in dependence with the development of a principal new state of nature. Compliantly, such inference of the Scripture and its interpreters is quite in common with the modern views that the evolution in the nature are taking place at some critical transition points as an emergence process of states at a background of changing physical laws (Wheeler, Davies, Laughlin, Ellis, Kaku, Barrow, Gribbin, Clayton).

5)EMERGENT DOWNWARD CAUSALITY a LOOP-HOLE of LIMITED INFORMATION for SELF-ORGANIZING UNIVERSE, LIFE, and BIO-FRIEND LAWS

Issuing from one of top-experts in quantum physics Anton Zeilinger's (2007, 8 - with M. Aspöckl), view our reality is randomness, and a start with increase of complexity of planets (our Universe, D.Lin, Scientific Am, May 2008), as well life is chaotic (Eric Smith, 2008, Santa Fe Institute). Nevertheless its ordered generation is unavoidable due emergent processes.

In that framework Davies (2008,7), turned to an approach of 'emergence top-downwards causality', when the high level principal than information guides the lower level - particles, i.e. matter to work in a purposeful direction. Due that causality, for one, stupid particles are complexifying towards higher organized complexes. Another contingent situation that he attempts to figure out from a circle, is the shortage of information density accumulated at the 13,7 billions of existence of the Universe, whose limit of accumulated information is only 10 in power 122 (cf. above).

Notable, that at present epoch, the volume of space within the horizon contain

about 10 in power 90 photons and neutrinos, each of which transfer a few bits of information. Thus, it brought to a sum of 10 in power 120 bits in total (S. Lloyd, Phys. Rev. Let. v.88, 237901, 2002).

However, is also calculated that an amount of information necessary for evolving human mind consciousness, or all the combinations of small peptides of proteins are much higher than the sum, density of accumulated information in our Universe.

Davies and some of his followers, embodying us, believes that only a competent strong *emergence* downwards causation path of arise *unexplained laws*, is while a plausible loop-hole that even on a background of the existing general limit of information, opens a way of an unfold a (self)synthesizing Universe, Life and human Consciousness.

In that context of emergence top-down causality with its overarching principles, for some philosophers and even for Wheeler and Davies rings as some 'religious conviction of sorts' (Davies, 2006,7), and for his opponents - as bolstering religion (Edge,229, 2007).

Ever so, Davies explained that 'until science comes up with a testable theory of the laws of the universe, its claim to be free of faith is a manifesting bogus' (The New York Times. November 24, 2007). For the present he assumes that the laws emerged as overarching one, while remaining unexplained, open a quest 'where do they come from?'. Although they are weirdly, nevertheless they are well-suited to the emergence of life in the conditions of the evolve of the Universe (Davies, in Edge 'The World Questions Center', 2008).

After all Davies(2008), arise the same question that already bothered Stephen Hawking "who breathes fire" into the pertinent emergence laws. Both endeavored to replace a divine agency with such laws, even so the former as a committed Platonist, admits that prior a launch of deeper theories in explanation for a mover of the laws, is while plausible apply the suitable emergent laws discoverable in a Platonic realm. Even so Davies assumes 'that the states of the world and the laws that link them form a dynamic interdependent unit' (Edge, 2008).

PART FIVE. OBSERVER'S MIND WISDOM CONCEPT, ITS PRINCIPLES-a CORE - of OUR REALITY

1) CONCEPTS of 'GENESIS BY OBSERVERSHIP', 'CAUSAL LOOPS', 'RETRO-CAUSALITY', etc., BASED on THOUGHT and PHYSICAL EXPERIMENTS

The thought experiments of Wheeler and his zealous follower Paul Davies, formalized the data in concepts of "causal loops" and "retrocausality".

The causal loop is expressed in such a sequence: Cosmos -> Life -> Mind -> Cosmos. In accord with retrocausality "life exists to make the Big Bang (BB) - Universe fuzzy laws (for shortage of its starting information) suitable for life".

Consequently, our mind's observations information in the present can affect how a photon behaved at past, and by feed-back signaling, likewise regulate perfection of laws towards fine-tuning for life.

Between Wheeler's crucial landmark ideas is "genesis by observership" of the Universe, regarding that "information may not be just what we learn about the world, *it may be what makes the world*"... "human consciousness actually creates reality by observation" (T. Folger, 2002), and "... no mind, no universe!" (in R. March, 1996).

Most top physicists accepts Wheeler's accent on the dominant role of information as a new paradigm of understanding the universe and the objects within it embodying the living one. So between his outstanding ideas is the causal closed loop concept that was already by him discussed in the 1980-90 years.

Its essence is formulated in a thoughtful maxim: cosmos -> life -> mind ->

cosmos. That descends from another Wheeler's principle of an "observer", that seems also not so prosaic: "Physics gives rise to observer - participancy; observer - participancy gives rise to information; information gives rise to physics"(J. Wheeler "Information, Physics, Quantum: the search for links", in Proc. 3rd Intern. symp. on the Found. Quantum Mechanics, Tokyo, 1989). Accordingly, the universe explains observers, and observers explain the universe.

An explanation to the mentioned experiments we found in a quantum physics particles wave property of signaling by moving forwards and backwards (quantum post selection, Wheeler), that enables the mind consciousness monitor and regulate the adaptive process of the flexible laws towards bio - friendliness.

The reasonability of such thought is sustained by the idea of the father of information theory Rolf Landauer (1967,1986) and Wheeler (1984), that the top, cornerstone of physics is information, that was further deepen and extended through Davies thoughts on a principle of "strong emergence" and concept of "top - downward causation"(2004,2006,2007).

Recently Paul Davies, the brilliant insightful theoretical physicist, the most internationally acclaimed theoretical physicist and one of top science writers, published his next two books "The Goldilocks Riddle" (2006) and "Cosmic Jackpot" (2007), a further development of Wheeler's ideas.

By the way Davies now sets in Arizona State University, a pioneering project "Beyond" - charged as a director of a Center for study of life, the universe and everything multidisciplinary and philosophy. The project is imagined as some "Cosmic thinking tank", addressed to the issues of origin of universe, life, consciousness and laws of physics and its links with information.

In these works and essays on the website "Beyond" started by Davies in 2006, is explained that foresaid Wheeler's idea suggesting that physics gives rise to life - forms beings able to communicates meaningful, semantic information about the nature.

However the observer starts probing nature for information transfer by using attributes of quantum physics, thus helping shape physics at heart. And Davies proposes that to this Wheeler's idea, with whom he in terms, is addible a complementary note "It seems obvious that the *universe* cannot create and explain itself *without also understanding itself*". That in its core is a serious philosophic problem, an issue restricted to religion, and now is a topic of be challenged by scientists.

Important to call attention that Wheeler for substantiation his popular causal *closed loop*, was forced at least demonstrate a thought experiment for backwards causation, whose essence is that "the observer - participants interrogate nature for bits of semantic information (via quantum mechanics), and thus help to shape physical reality, even in the far past".

With his student Richard Feynman, he in the 1940s offered the Wheeler - Feynman theory of electrodynamics, that permits electromagnetic interactions travel forwards and backwards in time. Something alike thoughts was deliberated by Hawing in relation to quantum cosmology.

Later, 1980s Wheeler starting from quantum physics, submitted a thought experiment the so - called "cosmic delayed - choice experiment extended to intergalactic dimensions, allowing photons (particles of electromagnetic light waves) signaling about the past, the Universe state billions years before the earth existed, and even influence on it. The phenomenon was called "quantum post -selection". The approach perhaps would resolve the mysterious of quantum physics, life and the Universe.

In 1986 Carroll Alley, W. Wikes et al.(the University of Maryland, College Park),

tempted to test Wheeler's thought idea running photons through an interferometer, whose path was dependent on a choice of observer of photons signaling from the past (W.C.Wikes et al., in Quantum Theory and Measurement, J. Wheeler, WS.Zurek, eds. 1983,p.457).

John Cramer (the University Washington) already since 1980s planned a set of experiments to test the event of retrocausality, whose adept he likewise is. In the near future he and his group is ready to run firstly an instantaneous signaling instantaneous signaling experiment for controlling its sterility, i.e. avoiding from noises or errors in photon tracking, the wreckers of retrocausality test. Then he shall try to make a signal arrive that before it was sent, running to measure with a system of a lens and a movable detector the waves or its photons particles of a screen connected with an identical screen 10 kilometers by a coiled - up fiber - optic cable, and record the delaying by microseconds. In that if the detector is closed to the lens, it registers a wave - like (interference) pattern, if the detector is farther from the lens, it registers photons as particles (P. Berry, New Scientist, September 30, 2006).

The idea of such retrocausality is that measuring an entangled particle it could send a wave backwards through time to the moment retracing the first particle's path through the Universe. Then the wave with its signal arrives back to the emitting spot of the two particles. Eventually, the wave can interact with the second particle without violating relativity than the wave signal need not to move faster than light.

Huw Price, the head of Sydney's Center of Time and Avshalom Elitzur, a physicist and philosopher at Bar - Ilan University, Israel, pondered that such experiment as planned by Cramer and alike, will play an increasingly importance in understanding of the universe (Berry, 2006).

That project complement the idea of Wheeler and Davies on retrocausality.

One another influent propagator of the quantum uncertainty's property to work for the future and past is Stephen Hawking. In the offered by him quantum cosmology is postulated that regarding the quantum state at the moment of start of the universe, is permissible that wave - particles complexes to work backwards in time from the presently made observations and infer the past. Consequently the existence of life and contemporary observers affect on the past (Hawking, Thomas Hertog arxiv.org/abs/hep-th/0602091, 2006).

To be fair Davies confessed that the real trail blazer in the issue of quantum post - selection and consequently the base of retrocausality was Yakir Aharonov and his international group. Already from the 1980s, being the professor of the University of Tel -Aviv, he tackled with that problem. For this sake his team used the approach of *quantum weak measurement* that now-a-days is highly popular, stemming from more then 100.000 references to a pertinent way of research.

Regarding the overarch and far - reaching importance of the matter of the quantum weak measurement path and revealed by it a post - selection paradox, the mainstay of retrocausality, we further on that hitting the spot problem will concentrates more extensively.

Aharonov was one of the pioneers that by replacing the usual employed measurement with very weak detectors, found paradox quantum effects. Between them are: - a simultaneous measurement of the position and momentum of particles; - particles pairs not annihilates itself, but only "disturb" each other or models paradox states of to "be, or "not be".

The pertinent paradoxes opened the way to Aharonov to made theoretical measurements that revealed deeper realms of quantum physics as a pre-selection and post - selection, the cornerstone of observer's mind consciousness that interpret

the result of proper weak signal detectors for *shaping of the very past, primordial emerging laws to be fine-tuned to live and human being.*

One of his early and most principal research was made with Lev Valdman in 2001, entitled "The Two-State Vector of Quantum Mechanics" (arxiv.org/abs/quant-ph/0105101). They showed that a time-symmetric entry to standard quantum theory due to applying of weak measurements, especially helpful for the analysis of experiments performed on pre- and post-selected ensembles. In the work is reported on thought experiments as a kind of quantum "time machine".

In the 2006 turned Aharonov to George Mason University as a Distinguished Professor of Theoretical Physics in the Center for quantum studies. Accordingly he was granted with \$10 millions, and there he continues his long-term cooperation with professor of theoretical physics Jeff Tollaksen, that was appointed as a director of the Center. They furthered the issue of proving the quantum post selection principles proceeding from sound mathematical rooting.

The mentioned two researchers recently reported on their "New Insights on Time Symmetry in Quantum Mechanics" (Quantum Physics, June 8, 2007, arXiv.org > quant-ph>arXiv/0706.1232). There was reviewed new aspects concerning time-symmetry in quantum mechanics, one of which that weak values in quantum physics are a property of every pre-post selected ensembles.

The work was already cited by "Visions of Discovery : New Light on Physics, Cosmology and Consciousness", R.Y.Cho et al., eds. Cambridge (2007).

Besides, Davies as a director of Beyond organized a workshop "Weak Values and Weak Measurements: A New Approach to Reality in Quantum Theory (April, 2007). The workshop was sponsored by George Mason University Center for Quantum Studies generally dedicated to study of the paradoxes revealed through the research of Aharonov and his group. In the discussions took place selected towering theoreticians as the real pioneer of quantum physics paradoxes Lucian Hardy (now Perimeter Institute of Theoretical Physics), Seth Lloyd, recently charged as a Head of a New Center for researching the ultimate capacities of quantum information theory, James Hartle, a near collaborator of Stephen Hawking, and some contemporary blazer a trail in the issue of post-selection as Lars Johanson (Buskerd University college). An opening address was delivered by Aharonov, where he focused on the heart of the problem of revealing the "deep" of quantum physics that to our common sense seems as paradoxes in a guise of *pre- and post-selection of a travel of entangled wave and its particle-photon forwards and backwards.*

Opening the workshop Davies accentuated that Aharonov's research riding high by discovering new hidden realm of quantum physics through resourceful penetrating in its "capricious" nature by the entry of weak measurements implementing a detectors of very low sensibility. By this way he *"lifted the veil of secrecy imposed by Heisenberg's uncertainty principle"*, and a realize "how the dice are roll".

Eventually Aharonov found an enigma "why God plays dice", paraphrasing Einstein dictum "That God does not plays dice".

Strikingly to add that indeed for the last decade arose already a score of followers of Aharonov's school of running a quantum weak measurement for researching also the phenomena of pre- and post-selection signals of particles, mostly photons of quantum odd traveling forwards and backwards.

Some of the recent and most impressing researches we render there. An experiment with optically probed atopic photons spins, in accord with Greg Smith et al. (Phys. Rev. Lett. ,v. 97,p.180403, 2006), appeared as a robust, fast and non-destructive protocol for quantum state estimation using a continuous weak measure in states of controlled dynamical evolution. The protocol works as a sure diagnostic tool in the research of new types of quantum feed back control,

including the post - selection state.

Impressing also the report of Jeff Tollaksen on getting new contextuality facts by implementation of weak detector measurement that does not disturb the pre - and post - selection (arXiv.org> quant-ph> arXiv.quant-ph/0602225, July 27, 2006).

The colleagues of Aharonov of the Tel -Aviv University S.Markovitch et al. under Lev Vaidman continue to provide new evidences on the pre- and post - selection ensembles measured at intermediate times, that is useful in general for signaling between causality disconnected regions. In so doing are appearing certain non - trivial bi - partite ensembles satisfying causality. This may be an evidence of a "posteriority realization of super - correlation" (Idem. Phys. Rev. A, v.75,p. 022102, 2007).

Very imposing also the work of Lars Johanson of the Buskerd University College, that proposed a scheme for reconstruction the weak values for registering post - selection signal avoiding the need for weak measurement (Phys. Lett. A, v. 366, p.374, 2007).

Stemming of the reviewed achievements of Aharonov and his followers in getting of experimental evidences for the post - selection through quantum weak measurement observed and interpreted by researchers mind consciousness, Davies (2006, 7), realized that the foresaid solid experiment data of Aharonov and his followers on the quantum effect of traveling of wave - particle signals forth and back called as pre- and post selection, serves a well - founded sustain to the thought experiment of quantum delayed choice experiments of Wheeler and his school. In line with experiments of the post - selection event, viz. by human mind consciousness interpretation selection could be extended to billions years, even right back to the BB. Thus, is pictured the way in which an observer mind consciousness "*today help to shape the nature of reality in the past, without being able to send information backwards in time*".

The shaping is imagined through mutual interacting, posterior correction feed - back signaling of human mind towards quantum weird flexible laws at the start of the Universe. Its machinery is rather the quantum uncertainty property of travel of *entangled (linked) wave/photons backwards and forward*.

The hallmark of the apt relative new concepts is that a mover of all processes of complexifying of Big Bang (BB) - Universe, Life and human mind consciousness is a principle of high level, top - downwards causation emergence governing creative factor - *information*: in terms of Wheeler the *ultimate substance from which all things of the universe are made, e.g. its laws, and the dominance of mind's information signals: intensions, thoughts, ideas, free will, etc. on the material world*. Information also control the adaptive self -regulation of brain's neurons associations.

Remarkable that on Munich Summit "Digital, Life, Design" (January (2008), Craig Venter, the favorite of human code cracker and evolutionist Richard Dawkins were united that also "genetic became a part of information technology".

Springing from the quantum theory's considerations that at the Planck time era - (10 in power minus 43), existed only one bit of information, Davies calculated that at the birth of the BB -Universe existed mere millions of information bits.

Consequently, the initial, starting laws were extremely indefinite, chaotic and hence the evolve of the universe began as simple systems of atoms, molecules, force fields (Davies, Beyond website, 2006; Seth Lloyd, in Edge discussion "Life: what a concept, August 28, 2007).

Davies and Lloyd in keeping with Wheeler and Landauer, proceeding from the concept of emergence top - downwards causation, represents the Universe as a huge information processing system, and accordingly with the increase of information in dependence of aging of the Universe, it forms emergent ever growing complexes.
- The peculiarities of a new complex that it already works in accord of new laws,

as the old one still are not adapted to a new state.

Thus an involve of gradually increased complexity of systems depends of density of information. That explains that life emerge only some billions of light years ago.

Davies vision is also that for an evolve of BB towards human observer presumably exist an innate purposive advancer as some emergency downwards causation information for an overarching "life principle" or even "life and mind principle". The latter plays a subsequent co - modulator of signaling for a self - synthesizing universe and life (Davies, 2006,7).

This is in tune likewise with the present quantum information revolution that is in terms with Davies (2007) - "the laws of physics are a form of software or (information compressed) algorithm, while the material world - the hardware - plays a role of a gigantic computer". The idea utterly overlaps with the insights of R. Landauer (1986), Seth Lloyd (2006) of a "Bit of Creation" of an Universe computer, and Anton Zeilinger (2007) and Vladko Vedral (2007), that only information creates reality.

Thus, the human being are endowed with a unique natural or even magic consciousness potency and free will to observe the implicate world and it subdue, under the hallmark of the image of his rather natural, than transcendent Maker, whose presumable metaphor is primordial wisdom that guides the final purpose of evolve of the Universe towards the human Minds consciousness.

2) TANAKH'S METAPHORS for 'GOD'S WISDOM INFORMATION of OBSERVERS

The observability principle as one of central of modern cosmology and quantum physics parallels to narratives of Tanakh on the role of an observer human being's observing the acts of God in creation of the worlds, e. g. : - "*Lift high your eyes and see: Who these created...*"Isa.(40:26); - "*...Who measured the waters...,And gauged the skies with a span,... And weighed the mountains with a scale..., And the hills with a balance?*"Isa.(40:12); - "*Raise your eyes to the heavens, And look upon the earth beneath...*"(Isa.51:6); - "*Thus said the Lord: Observe what is right and do what is just...*"(Isa.56:1); - "*The heaven is Yours, the earth too, the world and all it holds - You establish them*" (Ps.89:12); and - "*When I behold Your heavens, the work of Your fingers, the moon and stars that You set in place...*" Psa.(8:4).

Further, the Psalm's verses (111:10.6) explained "*The beginning of wisdom is fear of the Lord, all who practice it gain sound understanding*" [i.e. the man, the Master of the world], as "*He revealed to his people His powerful works...*".

That thesis by Rashi was unfolded than "*in the beginning God created the heaven and earth in favor of Torah and Israel*" [i.e. its people].

The suited idea was on own manner interpreted by the mathematician John Searl (2001), professor of theology Catholic Nancarow(1997), and professor in cognitive sciences and philosophy of Laguardia college, Cuny.

On a wisdom natural matrix that purposely takes the law of chaos and converts it into the law of information (wrote Searl, in G.D.Mutch "Matrix Law, 2001). Whereas, the cited above Paul Nancarow argued that wisdom is the matrix of information for purposive ordering the world towards a human being. That are expressed in metaphorical maxims - "nature naturing", "human humaning" and "god godding".

In this context draw attention the essay of I.Brown's arguments that God's wisdom knowing information is limited regarding that wave (photon) random function of matter(onemorebrownwordpress.com, February 9, 2008).

Most striking is the groundbreaking book of Stuart Kauffman, one of founders of the concept of self - complexity, the founding director of the Institute of

Biocomplexity and Informatics, a noted atheist. In a provoking work "Reinventing the Sacred: Finding God in the Complexity" (2008), as well as in an article with nearly a same title "Beyond Reductionism: Reinventing the Sacred" (Zygon, v.42, p.903, 2007), he shows that that the modern paradigm shift is compatible with his own to turn to sacred notion of an idea of God of nature as God of complexity in which we are its co-creators. That is in the scope of our limited wisdom. He admits that such speculation is a start of new religion, which crucial pillar is "order for free" - a "new biology" combining self - organizing and selection. The unnatural complexity of cell inspire one on an existence of a transcend God that it fashioned as a symbol of creativity of the universe, biosphere, humanity and his global ethics. Nevertheless the competent processes is guided by emergence, both epistemic , based upon natural laws, and ontological, theological that trough purposive information leads to complexity of an human mind consciousness

Some interest excites the essays of Joel Primack, an outstanding cosmologist, and co - founder of "dark matter" (the University of California, Santa Cruz), that with his wife, Nancy Adams, a philosopher, that in their essay "In the Beginning" - Quantum Cosmology and Kabbalah " (Tikkun, v.10 (1),66, 1995), and in a ambitious book "The View From The Center of the Universe"(2005,7), to the issue of Kabbalah was dedicated a part of "discovering harmony between science and Kabbalah". They portrayed God as having ten aspects, "*sphiroth*". The first "*sphiroth*" is concerned with "*Kether*" (Crown), symbolizing God's infinity, and continuous expansion of cosmos, The second - *hokmah* (wisdom), a potential to creative existence, the third - *Binah* (reason), the womb, matrix in which creation expands out of *Hokmah*, a post - inflationary expansion of space-time of the Universe. Thus Big Bang is the matrix of *Hokmah* and *Binah*, in the terms of "Disciplinary Matrix" or paradigm of Thomas Kuhn, the leading philosopher of science of 20th century. In his definition one of the main attributes of the "Matrix", was symbolic and metaphysic feeder of heuristic purpose directives through the growth of the universe towards the human observer.

A similar line followed Rabbi Shimon Leiberman in his series of Kabbalah of 2000, posted by Aish Ha Torah Jerusalem (Aish.com.Kabbalah Series).

In Kabbalah (lecture 8), dedicated on the relation of *Chokmah* or "inspired wisdom" related to *Binah* or "processed wisdom"[information], also defined as a deductive reasoning. He underlines that both in Kaballah and in Midrashic literature the function of *Binah* is percept than "*davar mitoch davar*", a word from a word, respectively an understanding one idea from another idea. That just both the father's and *chokmah*'s seed contain an undeveloped code (of information), that is mere a potential, unfolding in the mother's womb (viz. matrix) that it begins to develop. Besides, Leiberman deliberated the *chokmah* was created from "nowhere" (inbuild in the Universe).

Strikingly, that even a Franciscan order priest Brian Cavanaugh spoke that wisdom's seeds have been planted in the world, embodying in the human mind before anything, and it took a long time to grow and mature (posted as "Mazeltov! Mordy" by outreach program of Franciscan University National Network Storytelling Magazine).

In the similar realm contemplated the philosopher of religion David Teubner, a Christian, that explained the Bible as an allegory and metaphor. He sprang of many ancient myths that had been rethought in the Bible than God is "sending his seed", sowing in womb (matrix) of the mother that generated trough the primordial sea of chaos an order (www.keeneonline.com/other/allegory, posted and revised at January, 2008).

The Catholic Margaret Silt in her e - book "The Mustard Seed" (1999), she

submitted the notion "original wisdom" that created the universe we know from a mustard seed [that was borrowed from Nachmanides commentary to Genesis ch.1, It differed from the notion "natural wisdom" - the wisdom in the created world (The Mustard Seed Store, online).

More extended the issue had been rendered by Sea Raven, a Lutheran theologian philosopher, a member of GaiaRising.org/sophia.html, by which was posted his thoughts. Thus in a essay "Genesis, Logos, Sophia" (February, 1999), he cogitated on the parallelisms of metaphors "God", "Wisdom", "Sophia", that moved and ungraspable seed of events, a microcosmos mustard grain [again in kind with Nachmanides commentary on Genesis ch.1]. Remarkable that Raven admitted that Genesis was written by Jewish scholar exiled in Babylon circa six centuries BCB, with the opening sentence "In the beginning there was the divine word and wisdom, that later was retold by a writer of John's Gospel (second century CBE).

He also underscored that the Judeo-Christian monotheistic philosophy emerged from the primordial earth-centered matrix into the anthropocentric universe, that still holds.

For us was surprising the just heretical thought of Raven, that in a self-actualizing, relational universe, 'an interventionist "God" makes no sense at all', regarding that Wisdom is the generative force for the growth of the universe, cosmic and human consciousness.

Notable is also the recent interview of Gregg Bradden, the leading authority on bridging the wisdom of the past and our time, as an invited guest for intern. conference at January 18, 2007. In it he once more propagated his concept of a divine matrix, a container, a bridge between inner and outer world, and a mirror of quantum essence. Ultimately, the universe is a massive computer, that through information algorithms reveals the wisdom quantum matrix purposive guides for a growth of the universe and human mind (Divine Wisdom site).

In the interim also Davies in his recent interview to CosmicLOG-mnbc.com at April 19 (2007), entitled "The Self-Made Universe", where he brought additional evidence that early at the Big Bang, in the potency for our level of consciousness to interact with the universe in a way that a tree seed in potency it to shape.

3) QUANTUM COSMOLOGY MATRIX; *ITS SEED GENERATES the UNIVERSE*

Further, we found series of works on the issue of a role "matrix" in quantum, cosmology.

There was a couple of research particularly of Mexican physicists, on the organizing role of a matrix in Super-Symmetric (SuSy) quantum cosmology, respectively for a space-time of particles - antiparticles (O. Obregon et al. "Matrix Approach to SuSy Quantum Cosmology", World Scientific, Singapore, 1994, p.429: AIP Conf. Proc. February 20, 1996, p.259, 512, 1996).

The authors showed that matrix represented for fermions variables resembled wave function with only two independent compounds. The matrix notion probably in Loop Quantum Gravity (LQG) Cosmology serves to parametrize the configuration of space-time (journals/LRG/Articles/2005, p.11), as well as a general functional fundament for the model of LQG cosmology (Lukasz Szuic, CiteULike, July 12, 2007).

Dan Shiber (math/0609372, September, 2006), developed also matrix models of information geometry covariance of fluctuations naturally arises as the metric of space-time.

One of most imposing research on matrix of origin of the Universe submitted Joan Magueijo, an resourceful theoretical physicist of the young generation, and Levon Pogosian (arXiv.gr-qc/0411124 v.1., November 26, 2004). They simulated a thermal and quantum fluctuation models generating our universe, and showed that

just a thermal fluctuation are responsible for seeding the structures of our universe. Consequently, a potential of "warming universe" model, showed that in the framework of loop quantum gravity cosmology, there exists models as the former that provides a solution serving a seed for generating a universe.

On a necessity of quantum cosmology in an initial seed for density fluctuation at Big Bang reported too the researchers of Berkeley Lab. Physics Division (hitoshi.berkeley.edu/129A/cosmology). They estimated that such seed may be related to the cosmological constant in Quantum Field Theory.

In his turn B. Chen et al. (arXiv.hep-th/9909075), established that pointlike singularities tends to extend of the four directions regarded as matrices seeds of our 4-D space - time structures. Thus the developed model is not shared by a 11-D matrix model of String theory. In some sense a model of seed and its positive matrices is applicable also in quantum information and control of quantum processes (Jessica Kuang (Brigham Young Univ., Utah, www.ams.org/employment/2007).

A role of a quantum seed for structures of the universe is found for stochastic, complex semi-classical gravity (quantum fields in classical space - time). Consistently to the assumption of Bei Lok Hu, and Encic Verdauer (the Max Planck Soc.), it could play a starting point for a seed towards quantum gravity(www.livingreviews.org/lrr-2004-3).

A seed agency of instanton for the Universe was also impressible at the period when the Universe has cooled and expanded as a product of working 11-D supergravity quantum cosmology(Konstantin Zloschchastiel (the Univ. Mexico, Physics Lett. B, May, 2006).

An analogous seed for anisotropies in the microwave background of large - scale structures in the universe could provide vacuum fluctuation (Helen Bridgman, David Wands (Univ. Portsmouth, UK, Phys. Rev. D, v.61,p.11235 (4), 2000).

The appropriate position in relation to black hole was also followed from the research of Wu Zhong Chao (gen.relat.Grav.,v.31,p.223, 1993; SpringerLink Data, November 2, 2004), that a constraint gravitational instanton may be regarded as a prevailing seed factor for quantum cosmology on a model of simulation of black hole creation.

The noted physicist Stanislav Babak (the Max Planck Institute, Potsdam), also showed that for detection of massive Black Holes binaries is necessary a complex template (matrix) bank. He succeeded to built a coarse template bank for detection quantized wave signals that allows to make preliminary parameters for estimation such particular types of black holes that hit the headlines in the scientists community (arXiv/gr-qc/0801.40706, February 2008).

Another model of the Universe based on equations of Loop Quantum Gravity allowed Parampreet Singh (Perimeter Institute, Waterloo, Ca) et al., record on patterns of seeds of its structures, presumable to find in Cosmic Microwave Background radiation(New Scientist, April 10, 2008).

In several other works we found a metaphysical envision of the idea of wisdom's womb (matrix) seed information guidelines for a starting point and evolve of the world.

Above all is relevantly to draw attention to the cycle of lectures in Kabbalah from that position, delivered by the noted Rabbi Shimon Leiberman (Lecture 8, posted by Aish.comKabbalah Series, April 2, 2000;). He underlined that from the view that Kabbalah is the philosophy of Torah, the second *sefirat Binah* (reason) process wisdom for the start of the universe from a point, smaller as a mustard seed. In so doing *Binah* serves than a womb for that seed, guiding the mature of the world.

In the same lecture posted by Aish.com of May 2008, he added that that in the womb the potential of seed developed and processed as a deductive reasoning. That

is in tune with Kabbalah's definition *davar mitoch davar*, i.e. understanding one idea from another idea, as metaphors 'father' and 'mother'. The undeveloped seed's code of father (primary idea of wisdom) is only a potentiality, that the mother's fertilized in a reasonable idea (binah) of wisdom's creatures - the human, the world.

The proper interpretation on the position of wisdom womb (matrix) in creation of the world echoes in the cosmologist Joel Primack's (2005), discussion on apt notions of Kabbalah.

The topic of a 'Mustard Seed' was widely highlighted in a likely titled book of Margaret Silt ('The Mustard Seed Story', online, 2000). She offered evidences that a competent minuscule seed is a generating guide of original wisdom for arise and evolve of the Universe and Human consciousness.

The rendered matter confirm our view that God's (iG) wisdom 'sow' in its matrix (womb) a 'seed' of purposive emergent information, to overcome a quantum physics uncertainty, for growth of the Universe and its laws towards a human consciousness wisdom, enabled to shape bio - friend laws. Regarding that the BB - primordial Universe arose of an etched in it unripe minute matrix 'seed', and generated by it initial emergent information was scarce, causing primordial laws to be immature, fuzzy. That took place parallel with while minute volume inwards a volume of horizon very poor with non - emergent information (that function in accord of known laws).

Imaginable, that only with maturing of the 'seed', its directed emergent information, along with increase of density of information, depending of aging of Universe, the information became sufficient dense for enrich human mind wisdom consciousness to start in framing bio - friendliness of natural laws.

We realize that the notions 'seed', matrix (womb), as well 'emergent' perceivable quite as a metaphysical, though issuing from the forenamed review its is usable by sufficient respectable scientists and philosophers. Furthermore, a number of leading researchers, embracing such atheists than R. Kauffman, M. Shermer and agnostic P. Davies. admits that a range of scientific events, e.g. laws is while unexplainable, beyond physical laws, viz. metaphysical. To such interferences come the mentioned prolific researcher, philosophers - Keith Ward, Philip Clayton, a generalization of websites editors of such acclaimed websites as 'Natural Genesis', 'Information of Philosophy', 'wisdom laps', etc.

In this context, however, we have to take in account that the density of information also directly depends of the age of Universe, regarding the Einstein's Special Relativity's Theory constant of the speed of light and its event horizon.

As we already mentioned above Davies calculation evidence that in inflation time of a primordial Universe aging very minute volume of horizon content only a billion bits. To the present time the age of Universe counts 13,7 billion light years, which volume of horizon information content of 10 in power of 120.

Even so, believable that a matrix of seeds is more concerned for emergent states information.

Remarkable, that the offered wisdom matrix 'seed's' of purposive emergent information generative guidelines for a grow a Universe aimed towards a birth of human consciousness, parallels to Tanakh cardinal idea on creation of an anthropocentric world, whose creative human beings it "*master*" and perfect.

Eventually, the integral notion of wisdom serve a bridge between its principal source - the Torah, and its revived modernized cornerstone, i.e. wisdom - an amalgam of science's and humanity's purposive information focused towards evolve of human mind wisdom. The evolve of both took place by grades, as its creator, and discoverer of God was a human elite. Presumable, its purposive principle had been already etched at the BB - primordial Universe, viz. "*In the beginning...*".

Envisioned that the apt process in a framework of wisdom (chokmah - a feminine gender) is liken a womanly womb (matrix) that bred the 'seed' of emergent information targeted through growth of the Universe and its laws towards an evolve of human Mind - it shaper. All that in dependence of ripening of the information, its density.

Springing from the admission that a competent holistic, multi -faceted doctrine of wisdom could play a bridge between the Torah's, e.g. Tanakh's and Kabbalah's wisdom leading motives of creation, and modernized wisdom notion, we find for reasonable to set forth a heuristic idea of a primordial wisdom as a central moving force of high level purposive emergent information principles for a start and evolve of the BB - Universe and Life.

The reviewed works evidence that quantum cosmology, the ground of origin and evolve of our Universe is necessary of a matrix seed guide of adequate generative processes. We suggest that there exist an amalgam of epistemic and ontological purposive agency as "God's" or its metaphor -wisdom matrix seed that through emergent information guides a growth of the Universe towards Life and its 'crown' - human mind.

4) ZELLINGER'S CONCEPT-OBSERVER'S MIND CREATES OUR REALITY

To the same Wheeler's school is to assign Anton Zeilinger, a leading expert in transfer of information by entanglement and its fervent enthusiast (the Institute for Experimental Physics, University of Vienna). He claims that information and reality are two side of a coin (Nature, v.438, p.742, 2005), descending from a concept - information is everything we call "nature" (Edge, "The World Question Center, 2005), and that information is the building block of our world. governing through "laws of nature". We construct reality only by receiving information due the measure or observation (Edge, 94, October, 2006).

Accordingly, Zeilinger concedes that "the quantum physics... put information into mathematical formalism"(in M. Brooks, New Scientist, May 15, 2004). He later explained that reality is not distinguishable from information, though the latter is finite regarding that the random of measurement of realities. Besides, information is represented by a quantum system scales with its size(Nature, v. 438, p. 742, 2005).

Moreover, by making scientific predictions we descends from information that possibly we will attain in future that everything is just information. Zeilinger insists that between information and reality one doesn't make an operational distinction, that draws us to seek a new concept which embody both. Eventually, reality and information works as a message of quantum. That assumption may be a key for solving "all quantum paradoxes and puzzles" related to the measurement problem(Edge, "The World Question Center", 2005).

One of such riddles that lately had shown the group of Zeilinger is the pronounced incompatibility of non - local realism and the quantum world, in solving of which would play information of an observer, the active creator of reality (Simon Groblacher et al. , Nature, v.446, p.271, 2007; M. Brooks, New Scientist, June 23, 2007). Strikingly, that Qirin Schiermeier called Zeilinger - " the philosopher of photons" (Nature,v.434,p.1066, 2005).

One of that who was infected by the concept of Zeilinger is Hans Christian von Bayer, a physicist at the College of William and Mary in Virginia, US. He already in New Scientist, February 17 (2001), pointed out that information is the core of "stuff" of the Universe. Later he published a book "Information: The New Language of Science" (2003), that argued that information is the essence of the "stuff" of the Universe' and its blocks of particles, forces, etc.

One of leading experts in quantum information Charles Bennett, now the head

of Wilkinson Microwave Anisotropy Probe (WMAP) satellite, the leading project of experimental observational cosmology, held up that the world has a coded information folded in it (in *Emergent Systems in Science*, 1987).

To this province is also related an Indian noted physicist I. Samaral, an author on bosons, neutrino oscillation and radiation, electromagnetism and gravity. In his work *"Speculations on a Unified Theory of Matter and Mind"* (2002), he looks to a trend of quantum physics in which information plays a more fundamental role than ever energy and matter for mapping the universe. The Finnish physicist Matti Pitkanen adapted Wheeler's and Samaral's deliberations upon the preponderancy role of information on the structure of the universe in a frame of his concept *"Topological Geometrodynamics"*. He found for reasonable the manifold of information embodied in 4 dimensions spaces for represented the working of structures of the Universe.

The pertinent latter two concepts were compiled in the book *"The New Physics and the Mind"* of Robert Paster (2006), a mathematics bachelor from MIT and master of education from the Harvard University, that submitted these two concepts as radical and ever so promising.

The noted philosopher Tom Seigfried in his *"The Bit information and itself"*, *Natural Genesis: A (website) Source Book for the Worldwide Discovery of a Creative Organic Universe* (2006), assumes that the information is acknowledged as a primary creative quality, along with and prior to energy and matter, space and time. Information than an immaterial quality is perceived both an evolutionary process and an emergent event player.

Even so Sir John Polkinghorne accepted Bohm's "guiding wave"-information on environment as an active information. On the essence of the notion "information" that ex-particle physicist and one of leading clergies of the Anglican Church very explicitly expressed in his work *"Science and the Trinity: the Christian encounter with reality"* (2004). He writes that "The word "information" is closer analogue to David Bohm's "guiding wave" of quantum theory, that encodes information about the whole environment (i.e. it is holistic). It influences the motion of a quantum entity by directional preference, but not by transition of energy, namely it is active in a non - energetic way [something odd ?!].

Correspondently, Polkinghorne distinguishes such "top-down" holistic models of "pure" or "active" information from "energetic" information encoded in bits whose transmission is pushed by energy for to overtook of a noise level. Bohm' waves are active without energy (in accord with the interpretation of Polkinghorne). However, the original explanation of Bohm was that the guiding quantum wave contains contributions of particles (i.e. electrons) and its environment representing the form of the quantum potential of information or in Bohm's view - active information.

The appropriate active information is a form "having very little energy, enters into subatomic particles, i.e. electrons, and directs its much greater energy". Hence the quantum wave is a carrier of "information" that turns actually active only when and where its energy enters into the energy of a particle ((D. Bohm, David Peat *"Science, Order & Creativity"*(1987,9).

In this context the interpretation of Polkinghorne distinguishing informational causality (a non-energetic, a some "pure" information), and information of energetic causality, rings quite *exotic*.

The proposal he reconsidered the last decade plus was a claim that "God acts in the world only through the input of 'pure' or 'active' (as opposed to 'energetic') information at the level of non - linear or chaotic systems. Such input of 'pure' information does not violate the law of conservation of energy. Furthermore, he

suggested that God is perceivable as working behind the scenes in the mode of a "hidden" spirit interacting with the world, by "*an unfolding improvisation and not already within score*", through "the input of information within its open history".

That Polkinghorne's speculations seems more metaphysics as physics, and thus beg a question.

In this framework fires the debate on the problem of the essence of world information.

Thus, David Bohm, the late honorary professor of theoretical physics of the college of Berkback and London University, already in his original and provocative book "Wholeness and the Implicate Order" (1980), developed a conception that a hologram that due to laser light store information globally, expressing the wholeness of Universe(whereas normal photography due lens on a plate reproduce a small section of an object). The essence of a hologram is a kaleidoscopic picturing of a state of existence of an object in its totality. This unknown and indescribable totality he called "holomovement". Bohm assumed that the holograph "provides a good analogy to the general nature of movement in accord with quantum mechanics", unfolding all aspects of its global information (D. Bohm, D.Peat, 1987).

Besides, he corroborated the crucial role of information in organization of order in the Universe, embracing the most implicate (superimplicate) - the generative order laying at the foundation of physics. From the generative order emerges the holomovement. So all of the elementary particles are organized by information in suitable superimplicate orders permissible for creation the Universe. The pertinent common pool of information may encompass the entire of the Universe in a generative order(D.Bohm,D.Peat,1987; D. Bohm, B.Hilley "The Undivided Universe", 1993; 2006).

Remarkable, that in the same 1970-80s Jeffrey Chu, the dean of the faculty of physics at the University of California, offered a conception similar to that of Bohm's and Smolin's one. Compliantly to his conception the Universe is envisaged as a stuff of intercoordinated relations of information. Thus, in the peculiar book of F.Capra "Unusual Wisdom", Chu call attention to that "the two approaches [his and Bohm's] possess so much in common, that would be united in future".

In a certain sense the deliberations of Steve Lloyd, one of the top expert of informatics, now the principal investigator in the MIT Center for Extreme Quantum Information Theory, goes along with the aforesaid granting for information, regarding that "a primary...process in the inflationary Universe is a 'bit creation'..." (Phys. Rev. Lett. ,vol.88, p.23,2002). This is in keeping with the claim of R. Bousso (2002), that the abstract, pure information may form the foundation of physics. Besides, he relates space-time geometry to its information content (in R.Bousso, J.Polchinski, Scientific Am. September, 2004).

5) WAVE FUNCTION AS OBSERVER'S INFORMATION on OUR REALITY

The topic was also actual at the "Seven Pines Symposium VIII", that took place, 5 - 9 May at 2004, with such participants as the Nobel prizewinner in Physics of 2003 Anthony Leggett, one of leading experts in informatics John Preskill of Caltech in Pasadena, and other noted physicists and philosophers(in A. Cho, Science, vol.34,p. 1897, 2004).

Thus, the philosopher Jeffrey Bub and his colleagues predicated that quantum mechanics grows out of the principles of information theory. Using mathematics known as a C^* (C-star) algebra, he also deduced that the basic stuff of the universe is information. However such describing of world are limited by following three laws: - no instantaneous transmission of information, - no perfect copying of information; - no sharing of the information in a particular way called

“unconditional bit commitment”. [Yet the meant restrictions laws are still discussible]. Bub likely tempted to answer on the popular question "Why the Quantum?" (Studies in "History and Philosophy of Modern Physics", v.358, issue 2, 2004), arguing that quantum theory is fundamentally about the possibilities and impossibilities of information. In an another work Bub (Found. Physics v.35, issue 4, 2005), holt up that information became a primary principle of quantum mechanics that submits fundamentally a theory about the representation and manipulation of information.

On the question of Philip Stamp, a physicist at the University of British Columbia in Vancouver, “What’s it mean to say that the universe is just information ? “, the answer of the physicist Christopher Fuchs of Lucent Technologies in Murray Hill, New Jersey, was such : *the wave function represent an observer’s information on the objective world*. After measurement of the waves instantly is refined that information, is all launch in the observer’s head (Fuchs “Quantum mechanics as Quantum Information”, quan/-ph// 050390). He even concedes that the essence of quantum mechanics is quantum information.

- Besides, James Hartle(the University of California),the heavy weight cosmologists and close collaborator of Stephen Hawking, Murray Gell- Mann, and Steven Weinberg, concedes that the conception of information “gives us a sense of past and future”, viz. of time (in Cho,2004).

Universe as a Complex Adaptive System guided by agreed information schema

The Nobelists Gell-Mann, the multi - faced and extraordinary creative physicist, the grounder of the Institute of Complex Problems Santa Fe Institute, in his smart and thoughtful book "The Quark and Jaguar" (1994), contemplated that the evolving universe sprang from a complex adaptive systems. Everywhere they are composed of interactive agents guided through an agreed information basis or schema which relates to and is modified by its relative environment.

Gell-Mann and David Baltimore, the president of Caltech, also claims that "life is a little bit of order in the midst of aggregated continued tendency to disorder. The former argues that for the study the mechanism of the evolve order is rational to apply the Complex Adaptive System, developed by him. The System get the information of the world around and about itself, compress in a very compact message, which he call schema. The schema is used along with great amount of other information to predict the behavior of things in the real world by a competition of different schemata. Thus, the Complex Adaptive System refers just to their information properties (in Scitech, Closer to truth, "How Does Order Arise in our Universe", October 2-4, 2006). Besides, Gell-Mann offers a concept of "plectics" - a study of simplicity and complexity in the framework of classical and quantum information of the history of universe (Gell Mann.html; in SciTechDaily, March 2, 2006).

Hartle’s aforesaid conclusion upon flow of information in the time scale is also based on Gell-Mann suggestion that the Universe consist of a system of subsystems that gathers and uses the primal information. The latter called these subsystems “information gathering and utilizing systems” (in M. Chown, New Scientist, May 1, 2004). Thus the “flow of time” at heart is a “flow of information “ in our brains.

In the same province was the paper of Marijuan Pedro "Untangled the Newton life" (Biosystems, v.64, No 1-4, 2002). He conceded a persisted dynamic role of information templates in organic systems evolve following Gell-Mann view point of emergence of special complex adaptation systems. In that manner information push the organization of the living cells.

Emerging from the principle of an existence of primal global information, Seth Lloyd et al. (Phys.Rev.Lett.,vol.93,p.100501,2004), combined the ideas from quantum

mechanics and relativity, and formulated the maximum information rate. It is limited by the principle that the information cannot be sent faster than light and can be encoded with a given amount energy compressing not denser than at black hole.

Accordingly, the information play a pivotal role in the linkage of the theories of special relativity((the principle of speed of light), general relativity (gravitational constant, G), and quantum mechanics. Besides unifying these theories into a single one we could get the clue to quantum gravity theory, the Holy Grail of physicists (Lloyd, Ng, Scientific Am., November 2004).

6) DIVINE ALGORITHM MESSAGES for OBSERVER THROUGH CMB?

Consequently, the apparent divine voice modulations, as also the revealed presumable multifaceted metaphors of Torah with its various symbols are fulfilled with dense information related also likewise to shapes of letters, its numerical and sonic expression (Nachmanides).

The deliberations of cited above sentences of Hebrew Bible lead us to envisage it as far-reaching metaphors of the ancient authors compressed in certain algorithmic formulations. It consists of likely minimal bits or qubits, as commands decrees, ordinances, featuring a complex universe, live nature encompassing a human being.

Such deliberations remind the flashed impression of the astrophysicist from George Smoot, the first measuring of unexpected ripples of cosmic microwave background (CMB) by the help of COBE satellite at April 24 (1992), that seemed him "*Looking at God*" or the "*fingerprints of God*" (Interview with Smoot of Fred Heeren, in "Show Me God", 1995). Incidentally Smoot with his co-discoverer for this achievement in 2006 was awarded with the Noble Prize.

Joel Primack, professor of astronomy (University California, Santa Cruz), told that he also described the cosmic temperature ripples as like "the handwriting of God". His wife Nancy Abrams, a musician, composed a ballad about BB cosmic background radiation in a form of a CD track "The Handwriting of God" (in Abrams, Primack "God for the 21st Century", R. Stannard, ed. 2000; J. Adler, Smithsonian, July 2006).

Besides, at February 10-11, 2006, in Charleston took place a conference with a provoking title "Reason To Believe". Cosmic Fingerprints Regional Conference. The proponents of such a far-reaching claims are the ex-astronomer Dr Hugh Ross and Internationally respected biochemist Fazala "Fuz" Rana. They discussed a model for believing in a such insight of Deistic Cosmic Fingerprints that is testable, falsifiable and predictive.

These guesses is in common with the updated sufficient reasonable contemplations of Gregory Benford, a professor of physics at the University of California, Irvine, that submitted an essay under the title "Applied mathematical theology: You Have a Message" (Nature, v.440, p.126, 2006). He argues that the discovery of the CMB transfer a message alike cosmic fingerprint. The message is of the BB in the mode of temperature ripples. The pattern can be deciphered as angular-spin code, that spreads across the microwaves sky as detectable fluctuations for about 100.000 bits, that are approximately 10.000 words. Benford underlines that the only candidate of the pertinent message's tongue could be mathematics than binary numbers. For endeavor of decoding the presumable mathematical message, he offers his Benford's law, in accord which the logarithms of artificial numbers are uniformly distributed, did picture the tiny fluctuations. If such approach to decoding the primordial microwaves will work, it will serve as a prove that the microwaves were not random, but had been artificially encoded like a certain message. It may be rather a message from a some rational, counting designer that lead us to the old

insight, that "God was a mathematician". Besides, regarding also that the micro-waves are coded as quantum fluctuation divine acted as quantum mechanic.

Benford also concedes that such coded message perhaps was also writ in cosmic - neutrino and the still undetected gravity-wave background carriers of "the Word". Thus, is heated the interest on the "injunctions to mankind in the Old Testament...". Summing up the essay, Benford announced that the work of translation of the proper message is in progress in his new university department of applied mathematical theology under his own management.

Strikingly, that almost a similar envisage of the ripples of the CMB as a "Message in the Sky", is conjectured by the particle physicists Stephen Hsu (the University of Oregon in Eugene) and theoretical physicist Anthony Zee (the University of California, Santa Barbara)([ww .archiv.phys.org/abs/physics/051002](http://www.archiv.phys.org/abs/physics/051002)), December 6, 2005; in Hazel Muir, New Scientist, December 24/31 2005).

Noteworthy, the resonance of the astrophysicists Douglass Scott and J.P.Zibin of the University of Britain Columbia, on the paper "Message in the Sky" of Hsu and Zee. In a paper "The Real Message in the Sky", the former pointed out that the spherical harmonic coefficient of the observed CMB anisotropies depends on the location of the observer in both space and time. The amount of observer - independent information available in the CMB is a small fraction of the total any observer can measure. Hence a lengthy message on the CMB sky is fundamentally no less observer - specific than a communication hidden in this morning's tea - leaves.

Nevertheless, the CMB sky does encodes a wealth of information about the structure of the cosmos and perhaps about the nature of physics at the highest energy levels . The Universe has left us a message all on its own.

In their turn Hsu and Zee argues that a message from the creator of the universe could be coded in the differences of the temperature between different pairs of points on the sky, and calculable by apt angular scale of the ripples of CMB. They guessed that in ripples could be encoded a message also about 100.000 bits of information of "words of God". They even proposes that "a creator physically stamp the code on the microwave background" of the evolving universe according to physical laws. Hsu and Zee believes that their vision will be testable within the next 20-30 years and in this honorable task for searching a divine message is helpable the potential of world computer web.

Thus, credible that the illuminated and highly sensibly to Lord's inspiration personalities of ancient Hebrews that lived 3000 years ago, caught as though the thundering voice of the Lord that shined out with blinding brilliance, as some message,

The proposition is sustained by in the progress successful experiments in construing a global information system applying entangled laser beams photons, like that of the light photons launch by God's command "... Let there be light"(Gen.1:3).

Noteworthy that the proper effect could be essentially enhanced by the aforementioned scenario of divine words sounds energy itself. Consequently, such photons and sounds vibrations could be coded in the electromagnetism of light than adequate primacy information.

In this context is important to draw attention to the considerations of Dr. rabbi David Nelson (2005,6), that among the attributes of God as one of the most impressing is light, that he perceives as a traditional metaphor of a primal substance of Creation. He explains that just with the start of BB, that is creation of the Universe, also was "*launched all the light rays, and thus all the information*".

Moreover, descending from the sacral metaphors - "*The Eternal is God, and he will shine for us*"(Ps.118:27), he offered a scientifically corroborated metaphor - "God as light"

In that framework is very evident the huge progress of the modern quantum computer science both in simulation of various scenarios of the origin of the Universe and particularly of the BB in its instant moments. Perceivable also that the further advance of quantum computing towards its programming, will be the royal root for decoding the proposed as though God's message to the mankind.

PART SIX. MIND'S WISDOM-CREATOR a REALITY of UNIVERSE, FOUNDER a GOD, his WISDOM CONCEPTUAL METAPHOR, which SPIRITUAL AGENCIES GUIDES PERFECTING UNIVERSE'S BIO-FRIEND LAWS, own HUMANITY, ETHICS

1) INFORMATION for SELF-ORGANIZE of HUMAN MIND-an AGENCY of PRIMORDIAL PURPOSE WISDOM- an iG-ACTS METAPHOR in ABIOTIC UNIVERSE

In the literature we found evidences that the key attribute of resonation to primordial (primacy) information and its decoding, is related to an observer's mind consciousness enrich by grades with a some own purposive emergent information of wisdom for (self)synthesis and shaping the Universe.

_ We believe that a suited immanent God (iG) - primordial wisdom's purposive information guides simultaneously with a self - growth of abiotic Universe, also an evolve of its laws towards their ripening as bio-friendly for life and human mind wisdom's development.

_ Naturally, with an evolve of human consciousness and ripen of his wisdom, he strengthen its governor competence in shaping bio - friend laws of the Universe. and a self - perfection.

An essential sustain of our speculated purposive wisdom concept we received from the authority of the 'Big Questions' thought tank leader - Paul Davies. In his latest best-seller "The Goldilocks Enigma" (2006,7), he proposed 'A Life principle' and even 'A Mind principle', a purpose - like principle. He also argues that this principle is deeply imprinted in the fabric of cosmos, and is beyond physical laws (i.e. metaphysical).

Correspondently, Davies insight in some sense echoed to our idea of a purposive wisdom concept that offers adequate agencies, as information that also Davies assumes as a crucial factor in an unfold of the teleological 'Life principle'.

_ Moreover, Davies' purposive 'Mind principle' resembles our no less key agency as human mind consciousness wisdom role as a framer of bio - friendliness of laws.

Neatly in the same framework was the view of the Nobel laureate Christian de Duve with his motto 'Life a cosmic imperative', and Keith Ward's considerations, a prolific Fellow of the British Academy, a priest in the Christ Church, Oxford (in 'Big Question Archive' in a frame of 'A Templeton conversation'(April, 2008; Ward 'Big Questions in Science and Religion'. 2008).

His philosophic hypothesis of God, emerged from a minimalist view that the divine is a non-physical being of *consciousness and intelligence or wisdom*, that creates the universe purposively for distinctive human values, embodying morality.

More impressing about the predominant creative role of wisdom for growth of the Universe and human consciousness deliberated Sea Raven, Doctor of Ministry in Creation Spirituality, a Lutheran theologian philosophy (West Virginia, USA). In an essay "Genesis, Logos, Sophia", (in GaiaRising.org/Sophia.html, February, 1999), he argued that the notion is comparable with the notion wisdom.

Wikipedia describes wisdom as a complex of principles and ideas that purposefully govern all activities and decisions, foreseeing the consequences and thus maximizing the common good. Besides wisdom optimizes the use of available knowledge through complementing it with the values of humanity, encompassing ethics.

Thus, we imagine our concept of wisdom as an incorporation of a purposive machinery of (self)complexifying of Universe, Life and human mind consciousness, etched in the Big Bang - primordial Universe. The pertinent God's (iG) - wisdom's concept, one of main agencies - information density 'mature' with the aging of the universe, and hence its guidelines for evolve of adequate laws gradually works more accurately.

The discussed above admits that human mind's consciousness is in effect a creator of the reality of our Universe, and even its maker, regarding that without a conscious observer's mind is no universe (Wheeler, Linde, cf. above).

No less important the idea that is ridding high - a God, or more correct his purposive activity's metaphor - wisdom is a discover of human mind. Its necessity emerge from a need of faith as a holy abstract symbol -God, for a security orient and guide in the face of our reality's uncertainty, and unknowing the expected. A life - belt for our survival.

Besides, we believe for relevantly to offer an idea that in an abiotic era of a self - organizing Universe its moving purposive agencies works in a framework of a somewhat divine wisdom concept. Thus, the idea of a God, its metaphor - wisdom, and that notion generalization as a wisdom concept are also products of human mind consciousness.

Consequently, the human mind behaves as a central agency embodied in us than as meaning - doing system (St. Kauffman, 2008). From this standpoint that expert in informatics argues that the mind, along its ability sometimes to be algorithmic, computable. viz. syntactic, without meaning. However these mind's acts is only a part of the truth. Along to that the mind works as an import meaning doing system, whose mechanism is while unknowable, namely metaphysical, if not mystical.

The matter of functioning of our consciousness is while entirely unsolvable (John Searle 'Minds, Brains, and Programs' , in Behavioral and Brain Science v.3, 1980, Roger Penrose 'The New Mind of Emperor', 1989; Daniel Dennett 'Consciousness Explained', 1991; William Calvin 'How Brains Think', 1996; John Searle 'The Mystery of Consciousness', 1997; Stuart Hameroff, Roger Penrose,, Consciousness Events as Orchestrated Space -time Selection', J. Consciousness Studies, v.3, p.36, 1996; St. Kauffman, 2008).

A concise review of forenamed works evidence that the problem of consciousness is very far from understanding its mechanism. So Dennett underscored that the human consciousness is still a surviving mystery, whereas Hameroff and Penrose imagine that apt issue is solvable in a framework of quantum physics.

So, Hameroff, Professor of Dep. of Anesthesiology and Psychology(the University of Arizona, and Penrose, the Rouse Ball Professor of Mathematics(the University of Oxford)), suggested that quantum processes take place in microtubules of human brain (1996). However, already later Penrose in his 'Shadows of the Mind: A Search for the Missing Science of Consciousness' (1994), wrote the neuron level is 'a mere shadow of the deeper level of cytoskeletal action - and it is at this deeper level where we must seek the physical basis of mind'.

The towering theoretical physicist Steven Hawking (2007), think that the matter consciousness as before is uncomprehensible.

Nevertheless, Kauffman (2008) offers his prototheory with a posit of a nonmaterial quantum coherent/decoherence mind, along partly computing consciousness. In the case he springing from that with which plants and some bacteria convert light into chemical energy. For this sake antenna protein foster the chlorophyll to act maintaining the quantum coherence from degradation by decoherence. Anywhere he caution that this hypothesis remains the most questionable imagination.

The call in question is also expressed by Steven Pinker, a popular Johnstone Professor of Psychology (Harvard), in the title of his review 'The Mystery of Consciousness' (Time, February 12, 2007). That concerns mostly to the so-called hard problems as how subjective experience emerge from neural computation. Still no one knows what a solution, hence remaining a mystery. In that context Pinker addressing to Penrose's quantum mechanics of consciousness, that also is weird and consequently consciousness sure is weird, that too beg a question.

Another facet of the human mind and consciousness is the capacity of receiving and processing information.

This issue is reasonable to begin with addressing to the discussion incited in the New Scientist of November 18 (2006). One of discussants Igor Alexander, an computer expert, speculated that at 2056 would be recognized that the brain is an information machine, and the consciousness is to formalize of many elements relating to quantum physics. That view overlap with Rudolf Rucker's one, a mathematical computer scientist, that argues that "mind is a universally distributed quality" enabled to compute and emulated by any universal computer.

On the whole Eric Horvitz, a computer scientist, calls the attention that now the computation "is the fire in modern day: He make sure that at 2056, the computation revolution will be acknowledged than significant as it was evaluated the industrial revolution. So "intelligent" robotic "scientists will play a role of companions in discovery by formulation theories and pursuing their confirmation". Furthermore, computational foundations of the mind would be complemented by nanobiological elements that would significantly enhanced by automated reasoning system - alike "intelligent"(New Scientist, November 18, 2006).

- The same issue discusses Peter Stern and John Travis (University Colorado, Bouldor) in their book "Introduction to Special Issue Bytes and Brain" (2006). They tackles with the problem of biologically based computational models of high - level cognition. A suitable computer is proposed to design for understanding the mechanism of human cognition and intelligence. It depends of myriad complexities in the prefrontal cortex and associated subcortical areas working due a synthesis between analog and digital forms of computation. The need for robust maintain and rapid updating of information in the prefrontal cortex presumable to be satisfied by bi - stable activation states and dynamic gating mechanism, basic to digital computers and crucial for study of human intelligence.

Kauffman (2008) also assumes that the human mind's central agency of our body function both partly as a quantum mechanical, and partly as a computer processing algorithm of information. Even so the capital function of human mind's consciousness, unlike anything else observed in nature, are creating purpose, thoughts, insights, intuition, belief, the sense of oneness, an express of external and internal reality (Linde, Ellis, Scott, Hochberg, Davies, Begley, Kauffman, Jaki).

Andrei Linde, one of top cosmologists, insisted that by the thoughts, intuition, and observation of human mind consciousness is realized the objectivity of our world(in Science and Ultimate Reality, J. Barrow et al, eds.,2004).

John Ellis, an emeritus professor of mathematics of University of Cape Town (South Africa), in a review for Physics Today(July, 21 2005), argued that the mind governs on the world due abstract thoughts, intentions ideas, concepts, plans as top - down emergent causality actions on behalf of interlevel feedback loops.

Besides, Ellis alike Stephen Scott (Queen's University), also claims that thought converts in action, generalizing a set of experiments, in which intentions of paralyzed patients control prosthetic devices (cf. below).

Scott reviewed above all the technique of Leigh Hochberg et al. (Nature, v. 44, p. 164, 2006), that by intentions of a patient with tetraplegia restored a control of

prosthetic devices due firing electrons of neurons.

Whereas Sharon Begley reported on an effect meditation that by thinking of Buddhist on happiness that emotions succeeded to express (Begleys book "Train Your Mind, Changes Your Brain, 2006, in Time, February 12, 2007).

On relation of mind and its 'now' reported Stanley Jaki on a transdisciplinary conference 'Approaches to Personhood', a Metanexus project (Global Spiral July/ August , 2008). His posit was that mind is independent of the brain. And 'now' is an expression especially of the mind that register all that exist around and due due thought and decisions effect on the brain's actions.

More explicitly we will discuss the issue that thoughts, intensions of a mind consciousness at disabled restore the invalid functions by adequate neuroprosthesis regarding that matter fired the headlines.

Miguel Nicolelis et al. (Scientific Am. December, 2006), and others, by converting collections of electrical impulses decoding it into thoughts, perceptions, knowledge and behavior. Then I. Tsien the recorded collection of electrical impulses of the activity of neurons convert into a binary code. Their target is that by such digitalization of brain activity signals to create a base for assembling a universal codebook of the mind, just a catalogue mind's thoughts and experiences (Scientific Am. July, 2007).

That research at large is compatible with the problem - brain as information machine and complement the research towards brain - machine, e.g. mind - computer software, the solve of the matter of paralyzed, unable patients - the amazing manifestation of our mind(thought, intension, idea, etc) over the matter (cf. above).

2) SPIRITUALITY- MIND'S WISDOM (INTENTIONS, THOUGHTS) OVER MATTER.

This recently revealed phenomenon is on a border of unnatural - the possibility of such immaterial event as thought to trigger electric ,i.e. electronic impulses of neurons of the brain, and even manipulate with implanted prosthesis. Some researchers groups, whose leading one is that of Miguel Nicolelis, a neural-prosthesis expert at the University Duke, successfully launched a project "Brain-Machine".

- Issuing from experiments on rat, macaque monkeys and then on paralyzed humans, has been learned to transmit quite thought commands trough cortex neurons electric (electronic) impulses for manipulation with implanted neuroprosthesis interfaces. The commands are transmitted to a computer by a special algorithm via embedded chips in their brains(in M. Zucker, Scientific Am., November,1999; M.Nicolelis, J. Chapin, Ibid., October, 2002; M. Nicolelis, Ibid. November, 2004; in Discover cover story "The Myth of Mind Control", October,2004); Jack Kelley, Discover, January,2005). Though the prostheses are still slow and unreliable, Ted Berger of the University of Southern California in Los Angeles, a leader of such project is encouraged by their first steps.

- Nicolelis is faithful that science at not far future will succeed to get out all the brain's information processing tricks sufficient to yield huge improvements in neural prostheses for the need of paralyzed, blind, or other disabled. Nonetheless he caveat that certain aspects of our mind would not be disclosed, regarding that the most meaningful thoughts be written in a code unique to each us. He concedes that "there will always be left than mystery". Therefore, the prophecies of Popular Science about a future "mental telephone" conversation "simply by thinking about talking is still doubtful"(in Discover, cover story, October, 2004).

- The researchers of Nicolelis group and other one that are working on the Pentagon's project, the so-called "robotrat" in the framework of Defense Advanced Research Projects Agency (DARPA), and sustained with its generous funds, already

found clues that the neuron impulses are digitally coded, and now they endeavor to decode partially. John Chapin, a co-leader of the robotrat research team, ranks the neural code along with two other great scientific mysteries: the origin of the universe and life, although the former is the most consequential. The decoding would open new horizons in ailing brains and is prophylactic, allowing perfecting computer programs towards enriching them with human capabilities, and finally it would challenge the philosophical riddle of mind - body problems (Discover cover story, 2004).

Further, in the apt cover story of the magazine is highlighted that the neural code often compared to the operating system of a digital computer, and the neurons like transistors regulate the electrochemical pulses, resembling to the basic units - bits of information in digital computers.

- Yet the brain is unique by an astounding, quite unnatural complexity containing 100 billions cells and each cell interact via synapses with other 100,000 cells. The signals are regulated by hormones and neuro-transmitters that wash the cells, and the synapses constantly are transformed in strength, by forming and dissolving.

In passing also Christian Koch, the author of "Consciousness" (2004), compare a single neuron to a minicomputer, and messages are conveyed by small group of neurons in a tense temporal code and a context of the cacophony of the brain. To discern such faint signals within chaos of other signals are "incredibly difficult".

- Besides, Douglas Fields, an adjunct professor at the University of Maryland, underlines that the information in the brain actually is coded through the neural impulses, viz. spikes, regulating certain genes in neurons, i.e. turning it on and off according the impulses firing (Scientific Am., February 2005).

- Lately in Discover (January, 2005), Jack Kelley under the topic "Year in Science 2004", reported on the achievements of John Donoghue, neuroscientist at Brown University, the founder of Cyberkinetics. Donoghue in a interview with a correspondent of Newsweek of November (2004), and in a profile of Donoghue, an author of a breakthrough, published in Nature (v.442, xiii and 141, 2006), is told that he is a neuroscientist at Brown University in Providence, Rhode Island, and his colleagues descending from the idea upon the of converting the thoughts inaction, started from experience on brains of monkeys.

- From June 2004 they started educate a quadriplegic volunteer - Matthew Nagle paralyzed from the neck and down and confined to a wheelchair, enabled to control the computer only by his mind's thoughts using a brain - computer interface called BrainGate. This project of Donoghue was maintained by a private company in Massachusetts -Cybernetics Neurotechnology system, of which founder, director and chief scientific officer is Donoghue (Editorial, Nature, v.442, p.109, 2006).

He explained that a tiny sensor chip (2x2 mm) with installed hundreds electrodes each of them is fixed on selected neurons after being implanted in patient's motor cortex. By this way the sensor catch neural impulses signals controlling the arm movement, with a minimum of "noise". The signals are transmitted via fiber-optic cable to computer processors that finish the filtration of the disturbing "noise" and translate on a TV the patient's thoughts. So, Nagle manipulates with his TV skipping over video games lowering the volume by desktop icon. He can open a paint program and sketch a circle on the monitor, as also quickly learned to open and close a robotic hand and manipulate with house technique (Celeste Biever, New scientist, July 15, 2006).

- Donoghue commented that 'the fundamental findings are that you can record activity from the brain years after injury, that thinking about movement is sufficient to activate the brain, and that we can decode the signal'. One drawback of the technique that the Nagle undergone a risky operation -drilling a hole in his skull and inserting of pill - sized chip covered with 96 protruding electrodes in the

motor cortex, controlling bodily movements. The implant still able to sample only a fraction of the relevant brain activity.

- In another paper Donoghue group offers an explicit description of the used pilot neuromotor prostheses (NMPs), applied at the initial results for a tetraplegic human, i.e. Nagle. The latter used imagined limb motions command by firing neurons that open/close the robotic arm. Thus an intracortical neuronal ensemble spiking activity turned valuable for humans with tetraplegia (Leigh Hochberg et al. *Nature*, v.442, p. 164, 2006). Donoghue predicts a day when you'll shake hands with a (quadriplegic) person, that operates only through thoughts (Newsweek, 2004).

- Besides, Gopal Santhanam et al. reported that by the same set of 96 electrodes but implanted in monkey dorsal premotor cortex using a manifold higher performance brain-computer interfaces (BCIs). By that manner the monkey is capable of operating with various keyboards sizes in a fast and accurate key selection system. Thus, is possible to get up to 6,5 bits per second, viz. about 15 words per second. The results are essentially promising for increasing the clinical value of BCI in patients.

A group from the Wadsworth Center (the N.Y. State Department of Health in Albany), under Jonathan Wolpaw and Dennis McFarland, also developed a brain-computer interface translating thought signals into a move of a computer cursor (Proc. Nat. Acad. Sc. December 21, 2004; in S. Scott, *Nature*, v.442, 141, 2006). They put to four volunteers, two of whom with spinal cord injuries, to wear caps speckled with 64 recording electrodes, and to imagine the move of cursor in any of eight possible locations in periphery. At a time a computer translated their brain's EEG, i.e. mu and beta rhythms. After some weeks the two volunteers with spinal cord injuries succeeded to perform the aimed task (News of the week, *Science*, v.306, p. 1878, 2004; in Ch. Brownlee, *Science News*, January 29 2005).

- In his turn the neurobiologist Andrea Kubler (the University of Tübingen, Germany), uses the same approach with patients with amyotrophic lateral sclerosis (Hawking also suffers with the disease) and other patients (Brownlee, 2005).

Brains mirror cells

Strikingly that at the annual meeting of the American Association for Science (AAAS) in Washington, Christian Keysers (the University of Groningen, Netherlands), and many other neuroscientists accepted that in the brain works a miraculous 'mirror' mechanism that translate the observed movements and experiences of others human beings into the our neural patterns. Such imitation mechanism underlie our own motion and experience (Greg Miller, *Science*, v.308, p.945, 2005).

- After the discovery the mirror effect in monkeys by Giacomo Rizzolatti and his colleagues (the University of Parma, Italy), the same phenomenon was found at the human brain frontal region, the Broca's area. Credible that such reaction explains the sense of "empathy" (*Scientific Am.* November, 2006).

- Marco Iacoboni (the University of California, Los Angeles), using functional magnetic resonance imaging (fMRI) and other techniques, showed of neural mirror activity also resonating to intentions, emotions, sensations, and even future actions. The same researchers team at the AAAS meeting in February (2005), reported on "broken mirrors in autistic children, hence relating the mirror mechanism in the development of language (Miller, 2005).

To the point, Carl Zimmer (*Science*, v.300, p.1079, 2003), also reviewed a "theory of mind", the ability to infer what others are thinking. Believable that such neural complex of catching information from other people may be complemented by the notion of a culture unit '*meme*' than an influent mimicking and even infective factor in the mass-like spreading of ideas behavior, customs and so on (S. Blackmore "The Meme Machine", 1999). Moreover K. Laland, G. Brown suggested that meme

enthusiasts, such E.Szathmary, R. Aunger, etc. focused on what makes memes infectious, still the success of a virus depends also on the susceptibility of its host ('Sense and nonsense', 2002).

- Compliantly, the offered neuronal complex of mirror structures that reflected also in the concepts 'memes' and 'theory of mind', may play as factors of adaptive people's interaction by catching a flow of information of other individuals, including the savage ideas of a world Khalifat of fanatic 'suicide' bombers of the radical Islamists.

3) *HUMAN MIND-an INTERACTIONS of its CONSCIOUS and SUBCONSCIOUS PARTS*

This topic turned to be a very fashionable area of inquiry for the past decades, and to it were addressed about 40.000 articles.

The noted neuro-physiologist and philosopher Daniel Dennett in his 'Consciousness Explained' (1991), underscored that the human consciousness is the last mystery, that overlaps with the title of Stephen Pinker, a popular professor in cognition sciences, review 'The Mystery of Consciousness' (Time, February 12, 2007).

With the puzzle most extensively tackled Roger Penrose, the towering mathematician, Paul Churchland, a renown professor of philosophy, A.D. Moore, a professor of electrical physics, Hans Selye, the discoverer of the Stress Syndrome.

Penrose granted consciousness with the following properties: - common sense; - judgment of truth; - understanding; - artistic appraisal. To the sphere subconscious part of mind he rendered such specific properties : - automation; - intuition; - inspiration; - other unaware information.

One of apparent evidence on an existence of adequate automatic reaction were the experiments of Benjamin Libet (Brain, v.(102, p.193, 1970), that showed a time - delay of a consciousness reaction on the same subconscious instinct reaction. Something similar found J. Kluger of arise of 'anxious syndrome as automatic response of threads before the sense became aware consciously (Time, February, 10, 2003). The recent experiments of Dilan Heines of the Berlin's Institute of Neurology applying the method of fMRI also find that a decision - making took place a second before the decision was perceived consciously.

Churchland's criterions of consciousness as follows: - short - time or working memory utilization; - the capacity for alternative interpretations of complex or ambiguous data; - the ability to think about things not present, and imagine unreal things independent of sense inputs; - they disappear in deep sleep, and reappears in dreaming; - harbor the contents of several sensory modalities within a single unified experience ('Brain - Wise', 2002).

In his turn A. Moore beforehand that consciousness is a central creative part of the mind, whereas its subconscious part is a real workhorse, blindly following the orders of the conscious mind. The volume of its work is fantastic. So Anri Poincare pointed out that by trying only consciously to perfect all possible combinations of the available information in our head, it 'would require more as life time, even for solving a simple problem'. And

Eventually this titanic, enormous work partake the subconscious mind, assessing millions of combinations and possibilities. This phase More defines as incubation, with the following paths of subconscious mind: - searches the memory bank of information; - hunts for the suitable combination; - a surprised catch of a 'flash of insights', the compost of an unexpected inspiration. This period is characterized by tantalizing, frustration, , until is launched 'booster shots'.

The next phase of the subconscious mind is the illumination hunch, that could come 'out of thin air' (Poincare), when on it is reported to the conscious partner.

Then follows the verification phase of the illumination hunch that run the

conscious revising mechanisms: - testing the inspiration hint from the view that the idea would work; - on this base is built a pilot model; - is the idea pretty certain for working at full scale; - its falsifiability.

Regarding that not every hunch resolves the problem, the research work of the mind team continuously at the individual wake and sleep states ('Invention, Discovery, and Creativity', 1969).

Selye's conscious mind working stages are quite similar to that of Moore, only he accentuated on the logic and mathematics that could even block the fire of free flow of the intuitive thought of the fantasy run of mosaic combinations in a subconscious state. He pondered that the logic is by no way a key to the miracle of ordering the nature's information. Thus, the subconscious mind is some 'catalogue of a picture-gallery' in the human brain, the place of storing the impression on nature's events. One of the limiting points of the conscious mind is that at the concrete moment could task only with one problem.

Accordingly the subconscious mind are manifested by following actions: - manage with an infinite random associations of the experience thoughts, ideas, visions, that sometimes likes to dreams, and not far from nonsense fantasy; - form a huge mixture of related elements, making useful combinations; - occasionally in the mosaic of the pertinent scope of picture generated from a kaleidoscope of experience facts, one seems the most relevant to the resolving problem; - ripen an illuminating idea; - generate the intuition, inspiration, illuminating spark. hunch that usually spring up at the border of conscious state of awakening or fall asleep.

On the base of a gigantic received and stored information in the conscious state, the subconscious mind make multiple manipulations with the assortment of creative thoughts, ideas, that finally favors the fly up of an intuition and inspiration hunch of a luck idea. Thus the intellect is capable only to offer for us an idea, but not create it. Hence the creative process is always an unconscious action.

4) THE CREATIVITY of IMAGINATION, INSIGHT, INTUITION, INSPIRATION, LOGIC, and EMOTION PSYCHOLOGY - AGENCIES OF HUMAN MIND WISDOM

Regarding the important role of intuition and inspiration hunch as a subconscious mind in creativity process, Penrose in his book (1989), separated a special part entitled 'Inspiration, Insight, and Originality'

He guesses that the subconscious mind through a sudden flash of intuition insight produce a ready-made model of an idea, or solve of a problem, and the conscious mind play a role of an arbiter, and if the idea didn't 'ring true', it would be rejected or forgotten,

Penrose also draws the attention to the global character of an inspiration thought, especially that was proved by the experience of mathematicians and artists.

As an instance he offered the discovery by Benoit Mandelbrot an insight of inspiration of a fractal pattern of all in the Universe, biosphere, life, culture and even in economics. The same is adequate for Mozart's inspiration flashes of his heavenly harmonic music, that come out of the air, Penrose's metaphor for hunch wonders - 'God-given'.

The phenomenon of intuition was highlighted also by Einstein in his 'The World As I See' (1933, renewed ed., 2008), 'Ideas and Opinions' (1964,) and other his philosophic works. In the hunt for truths he applied two approaches - inspiration, as a pattern background, and - logic as an analytical.

The scientific process starts with an urge towards new favored thought through subconscious intuition, as some 'intramind discussions' with an inner thought dialogue of the researcher with himself, with his logic.

In this manner 'I think and think months, years, and in 99 folds the conclusion

appears false, but in the hundredth fold I'm right (cited in accord 'About Science', book 12, p.43, in Collection of Scientific Works, v.4, 1967, Moscow, in Russian).

Just in the hundredth fold the logical analysis prompting of a right solve of the problem. He underscored that in the process of cognition intuition and logical analysis periodically dominated on each other. In the same time he argued on a crucial role in the discovery of the nature's regularities had a 'flash of genius', but not so the logic way.

Thus, Einstein conceded intuition as the core of the process of cognition., and scientific discoveries could be revealed only through intuition, grounded on intellectual devote to truth'(cited book 14, p.32, cf. Collection of Scientific Works).

An other Nobel -prize laureate in 1960 with Burner for the phenomenon of immunological tolerance Sir Peter Brian Medawar, also extensively tackled with the issue on the role of intuition in a creative process. In his lectures 'Induction and Intuition in Scientific Thought', 1969), he argued that sciences starts as a intuition or inspiration imaginative path leading to creation of a hypothesis, that then must be approved critically and examined through 'falsifiability'.

Though being an agnostic, he admitted on the essential part of metaphysics, viz. intuition and inspiration play a role 'as a compost that can nourish the growth of scientific ideas'. Moreover the 'imaginative or inspirational process enters into all scientific'.

Ultimately, he underlined that the most imaginative scientists are the most effective, contrary to the uncensored that are 'cranks' Selye's popular maxim also was that 'intuition - a spark setting fire to the mind'.

For the matter, the philosophy of one of towering modern thinker Henry Bergson was also based on intuition(cf. above).

For us is highly imposing the deliberations of Nobel prize laureate Isidor Rabi, 'the dean of American physics', and 'Man of the Twentieth Century', a pious Jew (John Rigden "Rabi: Scientist and Citizen", 1987). Rabi spoke that 'the idea of God helps you to have a greater feeling for the mystery of modern physics.

Rigden spotlights that for Rabi the concept of universal God played an overriding standard of his wisdom activity, reflected in human minds, as 'the developing consciousness of the universe'. Besides wisdom is a blend of science and humanity - attributes of a concept of universal God, and human mind discovery.

For reason given Rigden rendered Rabi as 'an elder statesman of wisdom', infected tough - minded wisdom. To the point, another Nobel prize laureate Niels Bohr from the philosophical point pondered on a complementarity of knowledge and wisdom (in Light and Life, W. McElroy, B. Glass, eds., 1961; A. Pais 'Niels Bohr's Times', 1991).

_ The fit intuition insights of the authors of the Tanakh text, and currently rabbi Comess - Daniels', Gerald Schroeder's, Stuart Kauffman's and Rabi's commentaries on the predominant role of human wisdom in discovering of a sacral notion as God , very needed than a trustable guide essential for faith in our reality of uncertainty's unknowing. So Kauffman (2008) insisted '*...let us choose our own sacred (God) with the best of our wisdom...*', regarding that God, especially iG due our wisdom also help to guide issues of humanity and ethics. That parallels to the insight of rabbi David Nelson (2007), *that we find God for he needs us, and God arose from us* (cf. below).

To the point, a leading expert of modern rethought of the Holy notion wisdom, Vivian Clayton, ass. professor at Columbia University (NY), assumed that 'wisdom' is perceivable from three general aspects: 1) cognitive -acquisition of knowledge; 2) reflective - analysis of that information; 3) affective - filtered through a motion and humanity (in Steffen Hall, a science writer, The New York Times, May 6, 2007).

The last time in a accord with the unpredictable global panic in financial and economic realm, a special interest hit the headlines the psychology of emotions in creative decision - making issues. That springs from the assumptions that the apt panic at the world stock - exchanges is entirely linked with businessmen behavior emotion psychology. The main propagator of that matter is the Nobel -prize laureate in economics of the 2002 Daniel Kanneman (The Princeton University), for pioneering work of integrating insights from psychology research into economics, especially concerning human judgment and decision -making using uncertainty hazards. Just on the topic 'Putting Psychology in Behavioral Economics', Kanneman led a short course as 'Master Class' at Sonoma, CA, July 25-7, 2008. In Edge in this problem he discussed with Nathhan Myrvold (Edge 266, November 20, 2008).

- One of his far - reaching works was entitled "Heuristics and Biases: The psychology of Judgment", and other "Judgment under Uncertainty. Thus, he argues that the emotional psychology of heuristic activity under our reality of uncertainty than an experience of intuition wisdom that could brake biases.

On the rate of risk in economical operations distinguished another Nobel - laureate in economics of 2006, Robert (Israel) Aumann, that in his research sprang from the "theory of games", pioneered by John von Neumann. Instantly Aumann's and Kanneman's background is Israel.

The proper issue is also tackled by Andrew Targewski, a noted professor of business information system at Haworth College of Business, USA, in his book "Information, Technology, and Societal Development" (2008). There, he points out that information and communication help a decision - making in human society organization, knowledge, economics and culture by applying wisdom. Thee proper shift run from current 'paranoia' in human activity, embracing finance and economics, to metanoia, i.e. human wisdom and willingness to rather rational than psychological.

On the importance of emotionality in creativity spoke also Roger Penrose (1989), Einstein, Stuart Kauffman (2008). The latter particularly tackled also with the problem of uncertainty, unpredictability in economics, and the role of decision - making in this issue as others of a wise mind. In this problem solving is in common Michael Shermer in his "The Mind of Market" (2008, cf. above).[

5)THE MODERN TRAIL BLAZERS in SCIENCE-the BRIGHT MIND WISDOM'S ICONS

We introduce there only a selected group of brilliant scientist that made break - through in our understanding of growth of the Universe, biosphere, human mind, and its laws, as convince instants of their mind wisdom potency.

First of all is to introduce Albert Einstein, that admitted that a deep imagination led him to intuition of innovative, untraditional ways of perception the macro - and micro-world. Being gifted by a capacity to envision events unusually, he by an help of so called 'thought experiments' in conditions of a mere patent bureau, caught intuition / inspiration insight of entirely new regularities of behavior of cosmic structures. That were his famous equation $E=mc^2$, the pillar of Special Relativity Theory, and the Cosmological Constant - Lambda, the pillar of the General Relativity Theory (cf. above). To the point these equations were dubbed as 'God - given'. Moreover, Einstein pioneered the law of randomness of the quantum mechanics, also thanks a thought experiment intuition imagination of the Brown movement of microparticles, only for which he was awarded as Nobel -prize laureate in 1922,

Along to this revolutionizing ideas, Einstein genius launch an idea on an existence of a Higher Mind or Intelligence that guides an evolution of a pantheistic nature,

and also imagined a cosmic religious ethics. Springing of his apt idea John Powell proclaimed his as a prophet of new science religion, bridging science and a cosmic religion and its ethics.

From the appropriate multi - facets of his mind unnatural potential, Einstein actually could be represented as an brilliant manifestation of human mind's wisdom potential that is closer as mundane individuals to comprehend the 'Mind of God'.

In that context was not far of a truth, the proposition of Roger Rosenblum, that sometimes uprising discoveries achieved through inspiration could marks 'that some people is more able to speak to God'... 'and that God in return spoke to a select few', sharing with them of some of His information about mysterious regularities of nature (in an essay "the Age of Einstein", Time, December 31, 1999).

An another outstanding phenomenon of a personality with unusual potential of mind's wisdom power is the 'heir' of Einstein Steven Hawking, an unique thought experimenter, and also an inquirer of God's Mind ("A Brief History of Time", 1988).

The most amazing that being practically disbodied at a young age of amyotrophic lateral sclerosis (motor neuron disease), a rare and incurable disease, his mind wonderfully function allowing to exert brilliant thought experiments about various problems of cosmology. Besides he is a prolific writer of very popular science books and lecturer, offering new ideas and considerations. All this he carried out by a help of only one functioning finger and a complicated computed audio -system.

Hawking unnatural scientific achievements, beyond question, were advanced through all agencies of his mind, namely imagination, intuition, inspiration and logic analysis, and also being enrich with knowledge of previous scientific giants. After 20 year he confess on a limit to reveal the mind of God, and only imagination could break the borders of science.

Summing up the riddle of Hawking's mighty of mind activity in a totally physically disabled human being, led to a suggestion that it in totality is related to his wisdom as a genius.

A quite similar fountain of ideas of theoretical cosmology and physics rendered John Wheeler, recently late, that in a course of quite 70 years of creative scientific work furthered an advance, and even break - through in various actual spheres of following sciences: nuclear physics, black holes, role of information in a make of the Universe, unfix its laws, etc. The suited gigantic creative work was exerted predominantly by thought experiments, that led to the principles: - 'genesis observership', quantum post - selection, mutable physical laws and so on.

Consequently, in Wheeler's paramount thought experiments and mind's unusual creativity, we recognize an obvious personal model of a wisdom prominence.

Another eminent champion of uprising new ways of perceiving the paradoxes of quantum mechanics, and generally hard problems of natural sciences, biology, culture on a philosophic base, was Niels Bohr, the Nobel - prize winner in physics in 1922, for his achievements in quantum physics, especially in accord which was predicted 71st element (Hafnium). Thus, as one of main developer of pioneering steps in quantum physics, he became 'the principal figure in elucidating the revisions of the philosophical foundations of physics needed for comprehension of quantum phenomena' (in Abraham Pais "Niels Bohr's Times, in Physics, Philosophy, and Polity" (1991).

One of Niels Bohr's uprisings was the complementarity principle, as a new kind of relativity. Few drafts about that posit were entitled "The philosophical foundations of the quantum theory" (in Pais,1991). That principle works for comprehension the paradox of the phenomena in quantum mechanics: - of wave packet and its particle (e.g. electron); - conservation laws of energy and

momentum.

Remarkable the view of Werner Heisenberg that Bohr 'primarily a philosopher, not physicist'. The remark arise a special interest, regarding the great respect and even admiration of the former of Bohr's physics (Niels Bohr: his life, and works, as seen by his friends and colleagues', S. Rosental, Amsterdam, 1967, p.95; N. Bohr 'The Philosophical Lessons of Atomic physics', lectures delivered at MIT, as course', November,1957, unpublished draft, in Niels Bohr Archive (NBA); N. Bohr 'The Unity of Human Knowledge', in Ref.10,p.8 Collected Works, Amsterdam, 1972 ,v.10).

In the latter he accentuated that 'At present moment , when the fate of all people is inseparately connected, a collaboration in mutual confidence, based on appreciation of every aspect of the common human position, is more necessary than before in the history of mankind'. And in an other place - ' is also obligate to find a balance between the feeling of life as a wonder and the courage to-try to understand. (Nature,v.143, p.263, 1931). So by discussing the interaction between the feeling of a free will and reasoning in mind, it are complementary in nature's play (*Erkenntnis*, v,6, p.293, 1937, English transl. in *Philosophy Sci.* v. 4, p.289, 1937).

Bohr was not puzzled by ontological problems, considering that we have to develop concepts which allow us to talk in a productive way about phenomena in nature (Letter to H.P. Hansen, July20,1935 , NBA). However, he explained that 'I Have endeavored to make clear that my views are not purely metaphysical speculations (ref. 89, NBA).

He also deliberated that the internal function of an organism and its reaction to external stimuli are purposeful. regarding that complementarity has shifted from mechanistic versus vitalistic and teleological. In that aspect we could find a complementarity in understanding biological processes as an interaction of elements of vitalistic and physical / chemical concepts (*Daedalus*, v.87, p.164, 1958, CW, v. 10). - Thus, Bohr's assumption was that 'Mechanistic and vitalistic arguments are used in a typically complementary manner', namely that a concept of purpose in biology is playing its important role. That plausible inference boosted Max Delbruck to turn to biology for furthering the issue of complementarity, that lead him to receive a Nobel Prize in 1969 (in Pais 1991).

The noted Israeli philosopher of Judaism Arie Barac, Bohr's concept of complementarity, philosophically commented: thinking need an logical opposition ('Presumption of Humaneness'', Jerusalem, in Russian, 1998). He argues the modern endeavor of creation of 'theories of everything', 'final theories' symbolizes a some 'imperial' type of theorizing , with an attempt to include in itself 'all', without recourse on an existence of contradictions'.

Barac call the attention that proper unfavorable tend must turn to the progressive concept of complementarity or dialogical approach. Springing from that concept he tempted to develop a *complementarity theology*. One of suite instance are a compare of 'old' (Hebrew Bible) and the 'New Testament', or the notions 'liberty' and 'responsibility'', that runs in their combinations contrasts.

Bohr's wisdom grandeur is that along acknowledged one of founders of quantum physics, he succeeded also generate a breakthrough idea of a concept of complementarity. The concept's discoverer Bohr highlighted that only by regarding contradictions of an issue or theory opens the avenue to proposed truth or its generated philosophy.

Albeit that Bohr, unlike that discussed above, doesn't reflects on some intuitions, insights, proclaiming himself as an orthodox physicist, still presumable that beyond a deep imagination such uprising ideas does not been caught.

In the rendered by us cohort of illuminated wise physicists is to complement also with the Nobel prize laureate in physics Isidor Isaak Rabi, an Orthodox Jew,

whose outstanding individuality personified as a rigorous experimentalist, thoughtful theoretical physicist and a wide range thinker. In virtue of apt excellent qualities of Rabi he honored as the dean of American physics that helped make American physics extraordinary. His multi-facet achievements, pioneering in molecular beam experiments, and in nuclear magnetic resonance, inventing short wave radars and advanced its practice on war ships, kept another multipurpose affords in winning the war against the Nazis Germany. In the same time he maximally furthered the creation of atomic bomb as a chief ('wise') consultant of Robert Oppenheimer, the head of the Manhattan of Hydrogen bomb (though he opposed to bombing, and was one of ardent advocates for peaceful uses of atomic energy).

In 1984 Rabi was featured by Bill Moyers on a television program as a 'Man of the Twentieth Century'.

Concurrently he was a true humanist arguing about science and humanities, which synthesis - a avenue to a true wisdom, i.e. to wise scientists (John Rigden 'Rabi:Scientist and Citizen', 1987).

Thus, Rabi was one of seldom scientists that widely apologizes that 'scientists must learn to teach science in the spirit of wisdom'. He also claimed that our problem in a search for wisdom today than a blend of science and humanities (in his Loeb Lecture at Harvard on October 21, 1955). In his discussion with Oppenheimer to make American physics best, he explained that wisdom does not come in a way of formulas, proverbs, or wise laws, but out of living experience.

Hence, Rigden venerates Rabi in virtue that his crucial attribute to be an elder in wisdom, that with his toughness to wisdom, was one who created the intellectual revolutions of twentieth-century physics.

There we must underscore that just Rabi expressed the core of the high activity potential of represented by us selected group of scientist as an integral of their mind wisdom potential, as this was characteristic for Rabi himself.

Such was the picture of only of some selected by us personalities of high mind's wisdom potential, though there is findable a lot of another apt human mind's elite in various human beings activity.

Among suited Grand mind wisdom personalities in a global rage are separable Plato, Socrates, Aristotle, Maimonides, Spinoza, Marx, Einstein, Freud, Jung, Poincare, as also Edison, Marconi, Marie Curie's, whose top achievements were also related to a some obsession, imagination, intuition and inspiration, as it featured by Socrates, those that caught a 'guiding voice from nowhere'.

In accord with Herbert M. Meyers ('Creativity: Unconventional Wisdom from 20 Accomplished Minds' (2007), Doroty Meddermayer, PhD ('The Search Wisdom of Grand Minds' (2007), and Michael Levy ('A Clever Mind v. Wisdom' Boloji.com October 14, 2008), human mind's wisdom characterizes through insights, intuition, inspiration, spirituality, experience, knowledge, science, religion, ethics, morality reason, logic, prudence, skills, emotions, etc.

By the way all the mentioned features, save the religious sense, are findable in selected by us great minds of the contemporary cosmology and physics.

Nevertheless, they distinguish by an high imagination mind force, combined above all with intense intuition capacity and logic control. Regarding the outstanding features of our selected group of scientists that introduced in our reality breakthrough theories, concepts and ideas, thanks their mind's wisdom potency, at heart, are close to that Great wisdom mind, recognized in the past and in contemporary life.

In that context we consent with the uprising idea of the 'tolerant atheist' Stuart Kauffman (2008), that human mind wisdom 'reinvented' a pantheistic God of emergent creativity by whose wisdom, interacting with our emergent creativity, co -

create and shapes the Universe and its bio - friend laws. That partly overlaps with Einstein's, Rabi and rev. Keith Ward concept on a concordance of cosmic supermind, consciousness or wisdom with human mind elite wisdom to unfold 'God's (iG) nature's secrets/.

Strikingly, that in the last decades is spotlighted a linkage of cosmic mind consciousness with human mind consciousness. This posit along to aforesaid authorities, introduced Max Planck that assumed that a force that originated all matter exist as a conscious and intelligent mind. Thus, this Mind is the matrix of all matter ("The Philosophy of Physics", cf. above).

In the same province are the thoughts of Bernard Haish, an astrophysicist and NASA - funded scientist. In his book "The God Theory" (2006), were set up arguments for an existence of a some God in a guise of cosmic consciousness and wisdom, that is realized thanks human mind wisdom. That is in common with P. Davies (2006,7), speculation that the human consciousness is a part of cosmic consciousness, that in some sense also overlap with the considerations of Isidor Rabi (in Rigden, 1987). In accord with expressions of Rabi the 'mankind is the mind and the developing consciousness of the universe' (in his address to the Fourth Intern. Conference on the Peaceful Uses of Atomic Energy (Geneva, September, 1971).

The thought more accurately rang in the monograph " Is Nature Enough ?" (2006), of the professor of theology John Haught, namely the universe was *already fulfilled with mind wisdom*, arousing a congenial evolutionary habitat for critical intelligence.

To the point, Michael Dowd, an academic philosopher, a graduate from Evangelical University (Springfield, Missouri), and Master of Divinity, in his essay "Thanks God for Evolution" (2007), accentuated that not a Supreme Being's, or divine intelligence consciousness are intending favorable outcome, but rather our meaning - making consciousness realizes a linkage of higher and our consciousness in realizing an apt interconnectedness.

Something analogical we found in the work of Timothy Ferris, a professor at UCLA, and contributor to the New Yorker, entitled "The Mind's Sky: Human Intelligence in a Cosmic Context" (2000), as well in Grey Reinking " Cosmic Legacy: Space, Time, and the Human Mind" (2006, sec.ed.), and in J. Scott Carter essay "The Cosmic Mind", presented at October 5, 2008, to the Unitarian Universe list ([ww.southalabama.edu/mathstat/personal/pages/carter/cosmic mind](http://www.southalabama.edu/mathstat/personal/pages/carter/cosmic%20mind)).

Eventually, rabbi David W. Nelson underscored that regarding that the human mind is a part of God ("Let us make man in our image..' Gen. 1:26), and thus the mind of a system (God) is like man's mind.

Consequently, the offered review sides our idea that human mind's wisdom evolve owing iG metaphor - primary wisdom, a concept acting through its matrix purposive agencies - energy and emergent information guides, a self - growth of the Universe and its laws in the abiotic phase, towards its biotic phase.

Just with a self - organize of human conscious and subconscious parts of mind, ripen a conceptual metaphor of mind's wisdom, strengthening its intelligence and imagination potential complexity. Then starts the mind's wisdom to shape the bio - friendliness of laws interacting with the primordial wisdom's concepts purpose agencies in a pantheistic system for further perfection of human's wisdom potential, his humanity and ethics.

Strikingly, that the majority of discussed eminent personalities spoke of a superior cosmic intelligence, supermind, consciousness, or "Life principle", "Mind principle"(P. Davies), as some sacral symbolic God, rather an immanent God, that just orient an origin and unfold of the abiotic universe purposefully towards human

mind's wisdom (St.Kauffman, Sea Raven, cf. above)).

It's true, isn't it, that the aforesaid suggestions at large resembles our primordial wisdom purposive agencies that in the abiotic stage of origin of the Universe guides for a self - growth of an anthropocentric Universe.

6) TANAKH METAPHRAS OF HUMAN MIND'S WISDOM

Maimonides (Guide, p.3, ch.54), also drew the attention that wisdom (*chokmah*) was used for endow to human being moral principles, namely "*to discipline his prince at will, to teach his elders*" (Ps.105:22). Later emerged the attribute wise (*hakam*) that given to persons possessing great intellectual faculties, or good morality (Guide, p.3, ch.54).

In that context Maimonides (Guide, p.2, ch.38), conceded that every human being possess the intuitive faculty, but in different manner, in dependence of his mind competence. The prophets have had a very highly developed intuition and courage, and these abilities were very strengthened through Active Intellect's (divine) inspiration. Thus, due the excellence of their intuitive faculty, they could readily foretell the future. They has the ability to tell things that a mundane man could not even imagine.

Maimonides separate this people excellence addressing to Ps.(90:12) '*And the true prophet possesseth a heart of wisdom*'. Besides a prophet could experience of inspiration of a vision that God speaks to him, or His heard in dream (Guide, p.2 :44). Furthermore, prophets believe in the truths which came to them from God through inspiration.

Epitomizing that part of human mind's agencies of wisdom, we have regard the outstanding role of mind's abilities of imagination as intuition, or inspiration of varies degrees of intensity, controlled through logical analyzes. The proper agencies are most developed at selected highly creative personalities, that offers novel thoughts, ideas, insights which results are often inventions, discoveries and other breakthrough visions for future perspectives.

People usually define those as wise one.

Notable, that such selected individualities in Tanakh were predicated to the folk as prophets, the mediators of divine will, as they possess a 'heart of wisdom'.

Remarkable, that the popular commentator of Tanakh, namely Proverb's offered wisdom, David Atkinson, the Archdeacon, and Diocese of Southwark, London, in his "The Message of Proverbs: Wisdom for life" (1996, 8), called the attention that in contemporary society "information" is the new currency, due which is addressed the key abilities for perfection of our mind. The motto of such values is a wisdom creative work, a metaphor personified God, and correspondently is inherited by the human being,

In the complex of pillars of the human mind wisdom's values, an inspiration, intuition insights of the composers of Tanakh, e.g. Proverbs, inherited by us are: creativity, diligence, hard work, resourcefulness, love, integrity, justice, honesty

In this context Aron Katsenlinboigen, a Professor of Decision Science in his fundamental work "The Concept of Indeterminism"(2007, ULITA, online), claims on an existence an apparent similarity between the activities of God ("*at the heavens*" (Isa. 55, 8), and a human being - a "master", mentor "*than the earth*" (Isa.55,8) such as speak, plan, create, judge, contemplate, can articulate a future goal, and use that plan to guide them in bringing it into reality by their purposive conduct.

That evidently quite similar activities of a God and human being, Katsenlinboigen expressed in using the capital letters for both to emphasis a parity between them in their function. Furthermore, God and human being evolve and

mutate.

However, the particularity of modern creative personalities is through open - mind healthy skepticism, steady questioning and seeking non - conventional research ways, they by means of emergent information endeavor to overcome a chaos uncertainty of our reality to achieve new horizons in decoding the secrets of the Universe and life.

7) An 'INDUCTIVE' and 'PERFECTIVE' EMERGENT STAGES of SELF-SYNTHESIS _ the UNIVERSE and LIFE

Consistently to aforesaid concepts of "loop causality" and "quantum post - selection", the base of retrocausality, one of the key processes of origin and growth of the universe, life and mind's consciousness, take place through mutual, feed back interaction. On given reason for us seems more reasonable the process of a self - growth of an abiotic Universe, and its laws conversion in bio - friend for a biotic world, to render as a two - stage event: as an emergence "*inductive*" and "*perfective*" stages. Believable that these emergence stages are "imprinted" in the principles of BB - Universe.

In an "inductive stage" due an imaginable primordial purposive wisdom - a metaphor for God's (iG) activity, started a BB and a abiotic primordial Universe whose laws were fuzzy, flexible and mutable (for a forenamed extreme sparse of information in the akin initial stage of Universe) towards bio - friendliness.

In a "perfective stage", related to aging of the Universe accompanied with an increase of density of information, the unfolding process of an imaginable primordial purposive wisdom emergent information essentially promotes a self - growth of human mind wisdom's mature for shaping the bio - friend laws, and perfection of own humanity, ethics.

In this context is importing to note that also Davies (New Scientist, October 25, 2005), admits that "once sentient beings like us emerged, a *whole new phase of creativity came with it*".

8) EMERGING INFORMATION PARALLELES (PAN)THEISTIC INTERPRETATIONS

Meanwhile Phillip Clayton (2006), a professor of philosophy and theology, proposed that emergence downwards causation principle explains the "way God creates and acts within the world", respectively than a pantheistic emerging God. The recent view of Sir John Polkinghorne, share a believe with the former, that a pantheistic God inputs information for creation the universe through it downwards causation (Idem. Zygon, v.42, n 3, 2007).

Strikingly, that quite most articles of the December issue of Zygon, v.42, issue 4 (2007), were dedicated to the role of divine emergent acts in Creation.

The most impressing work in that issue (p. 904 -914) is from the eminent and prolific agnostic Stuart Kaufman, the founding Director of Institute for Biocomplexity and Information (the University of Calgary, cf. above). He claims that we live in an emergent prestate, unpredictable universe whose creator of such nature is God (immanent), and we are its ceaseless co - creators. He believes that God 'can be our shared name for the true creativity in the natural universe'.

Another agnostic Bruce Weber, professor Biochemistry Emeritus of the California State University, Fullerton (Zygon, p.837 - 856), suggests that emergent complexity of life is an instance of innate creativity of nature moved teleological.

Whereas, Gordon Kaufman, professor Divinity Emeritus (the Harvard University, Divinity School) in his smart article (Zygon, p. 915- 928), more explicitly argues for a God of emergent creativity. that brings theological values into connection with the modern cosmology, BB and evolution theory. Thus eliminating an anthropomorphic

God, he it renders rather as a symbol, a highly dynamic ongoing creativity reality of the world, alike to that of Paul Tillich (1886 -1965), one of leading authorities of Protestants. Something alike are the thoughts of the modern Lutheran philosopher Sea Raven that conceded on a turn of a primordial earth - centered matrix of monotheism into a anthropocentric universe (cf. above).

Zygon also published another bold and challenging paper Donell Braxton, on a historic shift from a transcendent to a natural immanence emergent divinity (Ibid. v.41, issue 2, p. 361, 2006). From that province was also the work of Laurence Troster, a Jewish chaplain at Bard College that was entitled "The Order of Creation and the Emergent God?" (in G. Cantor, M. Swetlitz, eds,2006).

Incidentally, the apt idea of an immanent God of creation, was rather borrowed from Rabbi Nachman of Bratzlav's "*Likutei MoHaRam*" Hasidism (Magid Shaul, Harvard Theological Review, January 10, 1995).

9)DISCREDIBILITY of a PERSONAL GOD LEADS to PANTHEISM; LIMITS of - UNIVERSE'S INFORMATION

The pantheistic shift is relevant, regarding that the biblical personal God is fully discredited in fire of the experiences of continuous persecutions, massacres and holocaust of the Jewish communities, as well as the persisting bestial interfaith wars, and the contemporary global war of the fanatical Islamists against the Judeo - Christian civilization. They threads with apocalypse and Holocaust -2 to Israelis.

That shift is affirmed by the recent poll of a British Christian Rownfee Found. that religions (theistic) is the "social evil" of 21st century (Sunday Time, April 20, 2008).

In that framework is important to point out also on some points that evidence, at heart, on a lack of a provident supervision, first of all on the fate of though his 'chosen people' of Israel, in general Jewish people, whose six millions was killed in holocaust by the Nazi's Germany, and now is under the threat of a new holocaust of just seven millions Israelis to near future of atoms bomb of the fanatic Iran's regime.

Besides under proper apocalypse is challenged the western Judeo - Christian civilization. Ironically, just in the fortune of appropriate antihuman states, haters of modern civilization, e.g. Iran, North Korea, Venezuela, etc are finable the most world energetic resources, whereas Israel of the 'God - choicest people' is lack of such resources. The God's promised providence to whom come ?

The modern life experience learns that a part of the open - minded, skeptic, liberal people, and naturally the Jews, are the most questing personalities revising the ancient notion of God , likewise on a metaphor of a discovered immanent God (iG). iG or rather his metaphor - wisdom works in a framework of a quantum cosmology, i.e. relativity theories, and quantum physics uncertainty reality system limits. In that framework both rabbi Nelson (2005,6), and Sir rev. Polkinghorne (2007), admits that God (as not personal) activity was limited mere by the process of creation.

Currently is riding high the paradigm of an immanent God (iG), as a part of a pantheistic Universe/nature system.

— A far cry on an impersonal God resonates to us already regarding Maimonides considerations on the problem of divine providence (his care and protection of everyone). He believed that God at large acts on a level of the whole Universe, yet not knowing on its particularities, embodying the human being (Guide, p.3, ch. 17, 47). Another medieval Jewish philosophy authority Gersonides (Rabbi Levi ben Gershon, 1288 - 1344), was in common with that interpretation of Maimonides, on existence rather a general than a personal providence. An impression that the both

were not deep defender of a personal God.

— A breakthrough in that notion came from Benedictus Baruch Spinoza (1632 - 1677). In his "Ethics" (1674), he introduced the famous maxim "God or nature", a self-creating principle, as the nature itself, 'God and nature interchangeable'. Moreover for the man no hope of a love of a personal God.

— Overlooking the main advocates of pantheism we must underscore the most ardent propagators of the philosophic aspect of pantheism - Immanuel Kant (1724 - 1804) and Hermann Cohen (1842 - 1928), a reinterpreter of the former, that proved a view that God is an idea of mind of the human being, and thus we and God render one closed system.

— A prone to pantheism of kabbalist thought was already found among early Chasidism leaders, in particularly in Rabbi Dov Baer, the Maggid of Mezrich (d. 1772), and the Habad school teachings. The insights of the early Chasidism impressed the noted Zionist socialist and moralist Moses Hess (1812 - 75), that even published a work "The Sacred History of Mankind By a Discipline of Spinoza" (in Dr. Joseph Heller, Zionist Library, April 2004).

— Another zealous follower of Hasidism was the philosopher and Zionist - moralist Martin Buber (1883-1940), that also tended to pantheism, and God as an idea in whom he interrelated as if a unique interacting system "I and You". Consistent thoughts emerges also from his "Tales of the Hasidism" (in two volumes).

— In modern times a most enthusiastic advocate of Spinoza was Einstein, whose famous answer version was 'I believe in Spinoza's God who reveals himself the harmony of all that exists, but not in a God who concerns himself with the fate and the doing of mankind' (Ronald Clark "Einstein", 1984,2007). Besides, Einstein deliberated on a while unsolvable problem of comprehension of our Universe.

— The problem is exceptionally 'vast for our limited mind'. 'We are in the position of a little child entering a huge library filled with books in many languages. The child knows those someone must have written books. It does not know how. He does not understand the language in which they are written. The child dimly suspects a mysterious order in the arrangement of the books but doesn't know what it is that' ("The World As I See It", 1935).

Interestingly, that the eminent mathematician Hermann Weyl, the co - operator of Einstein's mathematical apparatus, in his popular book "The Open World" (1932), had been tackled God as a pantheistic symbolic structure.

One of the philosophic giants of 17th century, along to Descartes and Spinoza was the polymath Gottfried Leibniz (1646 - 1716), the founder of Academy of Berlin. In his "Monadology" (c.1713), he tend to mesh his thoughts on monads, a non- physical unities, entirely dependent upon their intrinsic natures with pantheism of Spinoza. Albert Schweitzer in his "Philosophy of Civilization", v. 2 (1923), that Leibniz in his optimistic ethical natural philosophy, being impressed from Spinoza's teaching, 'without wishing it, he contributes to making Spinoza an influence'

To that pantheistic cohort is to relate Henri Bergson (1859 - 1941), the most influential philosopher of his time, a Nobel prize laureate in 1928, a representative of intuition intelligence encompassing pantheism, offered in his monograph "Two Sources of Morality and Religion" (, in French, 1932).

— On the way of researching a modern envisage of the notion of God is also encouraging the view of philosopher Mitchell Silver in his book "A Plausible God: Secular Reflections On Liberal Theology" (2006). He extensively tackles with Spinoza's nature of God, whose wisdom is now compatible with modern science rationalism. So, he argued that since the 17th century the traditional God of Judaism and other Monotheistic religions are under a pressure to conform to the scientific worldview. Across the Monotheistic tradition there had emerged a liberal

conception of a God compatible with a thoroughgoing naturalism. For many this liberal 'new' God is the credible plausible God.

The thought about a plausible God emerged from the analysis of the ideology of three recent thinkers: Mordekhai Kaplan, Michael Lerner and Arthur Green, that back the concept of a new God of nature, that through his purposeful activity is perceivable his plausibility. As against a non - theistic nature without God is purposeless and unpredictable.

In that framework is eventual to call the attention to the insight of rabbi David Nelson ("Judaism, Physics and God", 2005,6), and his eminent colleague Neil Gillman, rabbi and professor of Jewish philosophy (Jewish Theological Seminary), that the notion of God is a discovered one, thus it is denotable as "God" (a conventional one). To the discovered God we create metaphors. So, the former find relevantly as sacral metaphors to alloy the notion of biblical text's God with: - Big Bang of origin of the universe; - light; - chaos theory. Nelson also at length explained the value of his original metaphor "fractal shaped God", regarding that fractal is a geometric term of scaling and self - similarity, describable at scales from the submicroscopic to supergalactic, as reflective for an infinite God. We ourselves come to terms with the appropriate metaphors.

The latest Nelson's ongoing guide motive on the notion of God, is expressed in a such admission - "*we create God because God needs us*". And explaining this thought he set up a possibility that *God literally "arise out of us"*, and lead us towards such evolutionary pathways that have ever glimpsed (in The True Ancestors website, April 17, 2007).

Nelson's suggestions are in kind with Aron Katsenlinboigen's one of claims, expressed in using of capital letters for God and Man to emphasis a parity between them in activity ("The Concept of Indeterminism", 2007, ULITA, website).

The author is a noted Professor of Decision Science (University of Pennsylvania). Though being a secular researcher, he share the major idea of Process Theology that God is an evolving, mutable entity, adding that also the Man evolutionary evolve and mutate.

Consistently, Katsenlinboigen tends to a pantheism system where a God and Man co - works in framing the universe and life.

Meanwhile also Leon Kass, the Emeritus Professor in Common Thought, a secular Jew, likewise wrote that the activities of human being are analogous to God's one, that too certify on their parity ("The Beginning of Wisdom: Reading Genesis", 2003,6). A far cry of the reviewed thoughts, appears the series of shocking representations and the book of the "tolerant atheist" Stuart Kauffman, the director of the Institute of Biocomplexity and Informatics (University Calgary, Alberta), entitled "The Reinventing the Sacred: A New Way of Science, Reason and Religion" (2008).

His main idea that is extensively grounded, that the sacred symbol "God" is emergent creativity generating growing complexity in nature. His God is a divinity of nature, the creator all around in the Universe.

Besides, Kauffman underscores that God is a most influential sacred spiritual force that is imprinted in the genome of the mankind, and necessary for his survive, regarding that the appropriate *God is the unfolding nature itself*. Accordingly, Kauffman's God is an immanent one (iG) of nature, where we are a part of it.

The impressive effect of a God of self - organized emergent creativity of nature, influent even such steadfast atheist and skeptic as Michael Shermer, the publisher of Skeptic magazine. He admitted that Kauffman's God 2.0 (a displace of God.1 of Yahweh) "is a deity worthy of worship" ("Sacred Science", Scientific Am. July, 2008).

He goes for Kauffman's idea of a God symbolizing an emergent universe with

ceaseless creativity in the nature, biosphere, human culture and economics (Shermer, "The Mind of the Market", 2008). The discussed concept likewise settle for Mark Taylor, the chair of religion at Columbia University, that held up on a universality of emergent adaptive network of complexifying in nature, life, culture, ethics, under a guide of an immanent "self - embodiment of God" ("After God", Chicago, 2007).

Consequently, the holy notion iG (God) personified as his metaphor wisdom, a primary arch concept of purposive guidelines of a (self)growth of Universe, nature and life.

Naturally, conventional people in our uncertainty reality need to faith in such sure, though a mystic object as God, rather in a guise of iG.

In contrast, the life experience sadly learns that a personal God of the holy texts only leads to brutal interfaith wars, massacres, and even threaten with an apocalypse (fundamental Islamists).

In the light of increasing popularity of pantheism, melt the base of the mainstay of secularists on the omnipotence of science, triggered by a motto "God is dead".

_ For one, transforms the atheistic views of such ardent secularists as professor Anthony Flew (2006), Michell Silver (2007), Michael Shermer (2008). Stuart Kauffman(2008), and also ourselves. Even, the skeptical agnostic, the "heir" of

It seems to us that suited attitude is shared even by the most healthy skeptics posit of a God as a cosmic super-intelligence, uncomprehensible to human being.

_ On of them Rabbi Nelson (HUC-JIR) himself is drawn to the pantheistic model of the early Chasidism and Habad school, whose God is conceded as a vital divine force that penetrates in every corner of the universe. In his "Judaism, Physics and God" (2005,6), he argued that "God is either a part of the system - universe or a system itself".

_ The proper issue is also touched by the renown Israeli Rav Michael Laitman, PhD, MSc, Professor in Ontology and Theory of Knowledge, the president of Anshlag Research Institute. Pantheism he grounded scientifically: 1) that we all are made of the seed of the same cosmic stuff that started than Big Bang in a frame of Oneness - the name of infinity or God, 2) The primal God's light of enormous energy shattered the vessels - the conductors of the light, that could not withstand to such press, and the divine light sparks penetrated in every thing exists. He pointed out that kabbalist perceives the sparks as patterns of energy,(and we may add that light photons are both energizers and optimal transmitter of information). In that case divine sparks serves as fragments of energized information.

_ The following point of Laitman's scientific interpretation of Kabbalah, concerns quantum physics uncertainty principle, that leads to a reciprocity between the individual and the world, i.e. the perception of reality is a result of my influence on the world, and its influence on me. Quite a pantheistic worldview.

_ Another kabbalist and professor of Jewish studies Daniel Matt, also renders sparks as a powerful metaphor of God that permeated in everything.

_ Accordingly was raised a heretic question on an opportunity of a start of a God simultaneously with the Universe in a pantheistic system, findable in Richard Ellis essay. In the both provocative and plausible essay "Image of Work Versus Words At Play": Michelangelo's Art and Artistry of the Hebrew Bible" "Judaism v.51, No 2, p.162, 2002), he underscored the verbal artistry of Hebrew text of the first verses of Genesis.

_ The evocative ambiguity of the Hebrew text is permissible to interpret in numerous ways that depends on how one understand the cryptic "*B'reyshit*" word. In contrast all non - Hebrew translations of the Hebrew Bible are missing the genuine vocal and Hebrew letters shape richness, and hence being open - ended, playful, and generative of multiple interpretation.

_ That had permitted the open -minded Orthodox professor of Judaism and eminent mathematician Ellis (2002), after consultation with rabbi Saul Perlmutter, to decode the opening verse of Genesis - "*Be'reyshit*"(cited above), than "*In his head [in the beginning] God will create himself (along with the heavens and earth)*". A proper decipher was realizable issuing from the peculiarities of holy Hebrew scrolls, without vowels, spaces, etc. That allowed in the Hebrew word "*Be'reyshit*" of Genesis 1 a new location of its letters 2,3,4, that formed the Hebrew word "*rosh*" (head), and the letters 1,5,6, introduced the word *bayit* (house). Hence, through such relocation the meaning of "*B'reyshit*" rings than "*In his Head God create himself (along with the heaven and earth)*".

_ So the Hebrew word "*Be'reyshit*" in its genuine meaning is "*In the beginning*", and complementing it with the meaning of the relocated forms of the word's letters, it sounds as "*In the beginning God create himself along, at a time with his house, universe*".

_ A quite analogous transformation of the word "*Be'reyshit*" set up the late leader of the Theosophical Society and philosopher Gottfried de Purusker (Opening Lists of Genesis, Theosophy University, online, April 14, 2008). He also sprang from that Holy Scripture consists of only of consonants following each other in a solid, steady file. Consistently, by division the Hebrew letter *Bere'ishythbare'*, as *Re'ish* or *ro'sh* (that means head, wisdom, knowledge), and *hythbare'*, that is a reflective form of the word *bara'*, that signify making self (from nothing, Maimonides). Thus *God, or cosmic spirit through wisdom seeds initially matured himself than first formative forces for making the heavens, and the material sphere*. Eventually Purucker assumed that in the two or three first chapter of Genesis is findable the Ancient Wisdom of the human race. It very resounds with Leon Kass (2003) idea, "*In the Beginning was Wisdom: Reading Genesis*"(cf. above).

_ Strikingly that the subversive interpretation of Ellis, even dared him to challenge further heretic questions as "*Does the Torah create God ?, Does God create the cosmos ? !*", recalled by us above, as also in some sense alike rabbi Nelson's bold assumptions (cf. above).

_ More surprisingly such heretic thoughts to find in the essay of Sea Raven, a Doctor of Ministry in Creation Spirituality, a Lutheran theology philosopher (West Virginia, USA). There he declare that our universe is a self - actualizing and relative. And '*an interventionist God' makes no sense at all', regarding that wisdom is the generative force for the growth of the universe, cosmic and human consciousness* (in GaiaRising.org/sophia.html, February, 1999).

The submitted call in question on a possible dominant role of Torah's wisdom or wisdom itself to create God (Ellis, Nelson, Kauffman, de Purucker (cf. above) or creates a universe, cosmic and human consciousness (Einstein, Kauffman, Hardt, cf. above). Ultimately the discussed notions of primordial wisdom and wisdom conceptual metaphors of a God, e.g. immanent God (iG) are human mind's imagination opening controlled by a logic of life experience, a life -belt for survival.

Nonetheless, beyond doubt that the current pantheistic shift is relevant, regarding also that the biblical personal God is fully discredited in fire of the experiences of continuous persecutions, massacres and holocaust of the Jewish communities, as well as the persisting bestial interfaith wars. The best testify to that is the contemporary global war of the fanatical Islamists against the Judeo - Christian civilization, and above of all dreading with a new holocaust of six millions of Israelis.

That shift is also affirmed by the recent poll of a British Christian Rowntree Foundation that religions (theistic) is the "social evil" of 21st century (Sunday Time, April 20, 2008), promoting interfaith hate and its sequel.

_ - Contrary to it, a iG is entirely ecumenical based on global ethics wisdom (Silver, 2007, Kauffman, 2008). So, the latter invites the believers of varies ramifications of monotheistic religions to conciliate with the main principle of a God chosen by human wisdom as a sacred symbol of the creativity in the universe, nature. That can serve a shared sacred space for all the mankind.

_ Impressing that the rabbis Michael Laitman (2003,5) a leading Israeli kabbalist, and Lawrence Troster (2006, 7), a professor for Advanced Theology, by some way also appealed towards interfaith conciliation. The former insisted that kabbalah has no relation to religion, tackling with a human being as a part of a unique law of nature (viz. pantheistic entity), programmed due creativity information commands (*reshimot* - records).

_ The modern life experience learns that a part of the open - minded, skeptic, liberal people, and naturally the Jews, are the most questing personalities revising the ancient notion of a transcendent God, likewise towards a metaphor of a discovered immanent God (iG). Eventually, the nowadays thinkers and scientists followed Spinoza's instance, and "*naturalized*" God from his unnatural height towards nature as an immanent divinity (Einstein, Weyl, Bergson , rabbi Nelson, Kauffman, Shermer, rev. Sir Polkinghorne, Katsenlenboigen, Michel Silver with his "*New God or No God*", 2007, etc.).

- So the latter, a reluctant atheist and liberal Judaism philosopher, springing from Spinoza's pantheistic position, offers a more "plausible God" as the monotheistic one.

_ Correspondently, the monotheistic God of the main religions is the cause of crucial interfaith wars and massacres as already was recalled above.

- That considerations and other mentioned earlier, sustained our pantheistic position, and as a relevant holy symbol we found to advance iG acts as its metaphor primordial wisdom, than a generalizing concept. Its core are a purposive matrix of energy, and seeds of maturing information for emergent creativity of self - growth an abiotic Universe. its laws towards bio - friendliness and fostering a mature of minds wisdom, obligate for human survival. In the biotic phase of evolve of human mind ripen the agencies of its wisdom: imagination. intuition, inspiration, emotion psychology, free will, that enrich with experience.

_ In difference of Davies' imagined purposive 'Life principle' and 'Mind principle', that guides only the evolve of life entities, and particularly human mind consciousness complexifying, our primordial wisdom's purposive agencies drove a self - growth of abiotic Universe, and its bio - friend laws oriented towards evolve of human mind wisdom. In this case our imagined notion 'primordial wisdom concept' as a metaphor of God is just more generalized than Davies' 'Life, Mind principles', though both metaphysical and even crypto - religious (in admission of Davies, 2006,7).

- Whereas, in contrast to Kauffman's unpredictability of creativity activities, our iG - primordial wisdom concept embrace a purposive machinery for an emergent creativity in nature oriented to ceaseless growing complexity of a abiotic Universe, and its laws towards evolve its acme - human mind wisdom, a parity partner in a system with iG in shaping the laws of nature, and humanity's, ethics perfection.

KEY INFERENCES

1) God and it acts metaphor - wisdom, both an intuitive discovery of human mind: a) naive, prescience; b) a current wisdom concept of purposive abiotic and biotic stages of a self - complexifying of the Universe, Life and its acme - human mind's perfecting wisdom.

2) A primordial, arch purposive wisdom, a metaphoric concept of God(iG) , guides a (self)growth of an abiotic Universe and its bio - friendliness laws towards

a biotic nature.

3. Genesis metaphors of energy ("darkness" fire", light), currently like an energy matrix of conservation of energy and its changes, one of agencies of a concept primordial purposive wisdom,

4. God of Tanakh text - creator of "dark fire" energy shift in God of Einstein's God-like equations: Cosmological Constant - Lambda, and $E=mc^2$, the pillars of the Law of Conservation of energy, and its conversion in mass/matter (conserved energy), parallels to Genesis' and Deuteronomy's "darkness"~ "fire", and "light" energy.

5. The modern notion of a "chaotic quantum fluctuation" agency, that runs order through chaos energy, parallels Genesis (1:2), and its Job's refine about "chaos"

6. A hypothesized universal information - a maker of the Universe and Life; its observer - human mind wisdom, a shaper of bio-friendly laws and the reality. It presumably descends from a metaphor of Genesis God's "said" commands information.

7). The currently discussed notion 'matrix of ripening 'seeds' of information for a self-growth of an abiotic Universe and its laws towards bio-friendliness for life and its 'crown' - the human consciousness wisdom, resounds to God's "seed bearing" entities metaphors of Genesis.

8). The now riding high issue of a ceaseless creativity emergent information for a stage-like on-going complexifying process of the Universe, Life and its acme - human mind consciousness wisdom, model the Genesis stage-like emergent changes of creation of the world.

9) Offered and validated an 'inductive' and 'perfective' stages of a self-growth an abiotic BB - Universe, and its laws due primordial purposive wisdom (a metaphor of God, e.g. iG activities agencies, that also guides a conversion of the laws in bio-friendly for a biotic world, and self-growth of human mind wisdom.

10) Believable upon existence of at-once growing ecumenical immanent God's (iG) primordial wisdom (its metaphor) - Universe pantheistic system. with laws evolving bio-friendly for a self-growth of human mind's consciousness, interacting in a frame of the system, and perfecting his wisdom, embodying humanity, e.g. global ethics.

11) An evolved human mind's wisdom main agencies: a) imagination; b) intuition; c) inspiration; d) emotion psychology; e) logical analysis; f) free will. That key agencies are the essence of mind's creativity and wisdom. Mind's wisdom shapes the bio-friendly laws, and perfects own humanity, ethics in the course of accumulation of experience.