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The main provisions of the Universal Space Theory (UST)

All sorts of forms and methods for the study of any physical process that, as a rule, give ambiguous results are only different directions of testing and awareness of the same information structure. In understanding of the fundamental laws of existence and development of the Nature (totality of the outside world), there is always and everywhere a certain subjectivity, primarily related to the fact, what methodology and technology were the basis of the algorithm of review and analysis of a particular process, or of a theoretical concept creation base. It is obvious that any technological method projects itself in the form of the final result, and final models will inevitably contain a "trace" of the algorithm underlying their formation.

General relativity theory has discovered a direct connection of the physical laws of the Universe with the geometry of space, where local changes in its structural composition become a cause of a well-defined physical interaction in the macrocosm. Contradictions arose when trying to create a universal theory that describes all fundamental interactions and is fair for macro- and micro-world, have led to development of the "string theory", which operates by geometric objects of extremely complex shapes. As a consequence, a purely geometric mathematical approaches allowed to obtain new descriptions of known physical phenomena. Multidimensional spaces of nontrivial topology, allowing to describe both behavior of macrosystems within the quantum gravity theory, and features of gauge fields in the standard model of microworld become ordinary. Where such a connection of the space form and the laws of physics appears from? This paper proposes a model to explain the reasons for such dependence.

A summary of some of the main aspects of the offered universal space theory (UST), given below, assumes answers to a number of very important questions, namely: what are the principles that allow the Universe (Nature) to exist in the form of a super-stable organization?

What processes within this system generate such subforms as galaxies, star systems, planets, or different kinds of matter?

What the conditions are required for emergence and existence of various biological objects?

Why they have precisely this structure?

And the most interesting question: what is the source in formation of active (biological) matter - the simplest forms of a prototype or an extremely complex scheme of counter interaction, realizing itself as a materialized hypercomplex system of individually-personal consciousness?



To answer these questions, it is proposed to consider some fundamental principles of formation of wide-variety regular hypercomplex systems, reflecting the basic aspects of the UST, which analyzes the physical aspects of reality, and the used intersystem correlation methodology is based on the principles of resonance-structure interaction. Most often, this process is associated with multi-level interference. As a general approach, it is a seamless part of this concept, forming appropriate matrix of solutions.

Ancient sources said that "the world rests on three pillars". In this perspective, it is worth to recall that each electromagnetic pulse consists of three mutually perpendicular vectors of polarization, magnetic and electrical intensities. In the parlance of our time, these three aspects which do not belong to the same semantic category, determine stability of elemental electromagnetic wave. Three basic aspects relating to a fundamentally different forms of physical reality, namely - matter, energy, and program-oriented information that forms the first two categories - are the basis of formation of highly complex regular hypercomplex systems with extremely high stability of their spatial and temporal characteristics resulting from deep counter correlation of their own structural compositions having, as known, electromagnetic nature.

Stabilization of each of these three basic aspects suggests occurrence of counter resonance implemented in the iterative algorithm of fractal construction of complex structural compositions based on the original link (prototype) that is embedded in the program for the formation and stabilization of the object, process or analysis to be modeled. Iterative construction of the resulting structure represents consistent application of mapping (comparison) of the structure of the original link (functional basis) interacted with its absolutely adequate counter function for the entire system. An example of interaction with completely adequate counter function is an elemental standing wave which is a system of resonators and exists without requiring additional energy. Resulting structural diagram, which can be interpreted graphically presents a multilevel fractal structure (i.e., matrix of counter interactions mapped to itself), which has "starting" forms and principles of the basic prototype, violation of which converts hyperfractal complex into a self-destructive hypercluster macrosystem.

Illustrative examples are crystal lattice structures (single crystals), as well as the structure of biological objects, where an existing genetic prototype is deployed according to a particular algorithm from a single, specially activated cell into the organism, consisting of hundreds of billions of its derived analogs having a base matrix (DNA) common for all subforms of a hypercluster bioform.

As a result of the fact that the entire set of relationships is counter-currently mapped (projected) on any of its part, the such property of the system is manifested as physical and functional self-similarity,



when arbitrarily selected area is a projection copy of the complete structure. Considering fractal objects, it is important to pay attention to formation of the electromagnetic projection of their own characteristics - a superposition, which is a complex interference pattern. Projection is not a copy, but field derived formation, which allows to determine the source object or the base function via "conformity factor". In this sense, an example of a fractal object is a holographic image, where almost any "fragment" allows to restore the structural form of the entire object, although with a loss of quality, depending on parameters of the fragment.

How the fractal system can stably exist in the expanded form? The main criterion is to minimize the tendency to spontaneous provocation of any internal conflicts and contradictions, i.e., the structural basis (pattern) of the system forming a counter interaction (resonance) should tend to absolute consistency (coherence). Seeking or tendency to an absence of intra-system contradictions in any interaction pattern can be formulated as a statement that the "sum" of all internal interactions of any sustainable system must tend to zero (the "principle of least action", considered in the course of general physics). Refinement of the principle of stabilization of hypercomplex objects can be the following formulation: the counter aggregate integration of system interrelations must ensure maximum coherence, determining system-wide neutrality and final equilibrium of exchange reactions of interaction (counter response), as a result of which the progress of any and all internal processes must be as much as possible accurate and strictly correlated, and accumulating errors shall automatically be differentiated under the influence of the relevant self-regulation trends. This thesis is essentially encompasses solution of the spatial hyper equation characterizing program, wave, physical, chemical, etc. parameters of component subforms, defining the absolute balance of the system having an electromagnetic nature.

There are the following types of interaction: wave characterized by parameters of wavelength, amplitude, phase and interaction vector, and resonant quantum processes, when there is a certain formation, representing a highly integrated stable set of wave functions in the form of monosystem of counter resonance interrelations, where frequencies, amplitudes, phases and patterns of opposite interaction of all subforms are strictly correlated. Emergence of fractal resonance requires correlation of not only frequencies, amplitudes and phases of wave processes, but the main requirement is correlation of patterns of counter interaction of their polarization vectors, electric and magnetic components. Directional pattern is dependence of the amplitude of intensity vector E in the far area of the observation point P ($E(\theta, \varphi)$) angular coordinates. Absolute correlation determines a multi-level system of counter-exchange interrelations, where the resonance becomes the only form of their manifestations, and common interaction pattern represents radii forming a hypersphere - sphere assembled from their own analogs (self-affine object). All processes in such a universal system are synchronized relative to center, and the



level of its intrastructural entropy tends to zero.

Correlated, that is, coherent system must have internal gradation levels comparable to the concept of "ranges". It should be fractal, representing a self-affine object with common for all of its subsystems spherical directional pattern of counter-interaction of component subforms as derivatives of the base prototype projections.

Subject to completely correlated interaction of wave processes of a wide range of frequencies, appearing as a result of formation of a counter-resonance, there is a common for all subforms integral monoform - "quantum object". This refers to a self-sufficient regular resonance system, to which nothing can be "added" and from which nothing can be "subtracted" out of a large-scale admission. It is possible to attach only a module having the structural configuration corresponding to the given system, or a potential carrying a similar large-scale integrity, giving the quantum system an opportunity to create its own analog (fractal cloning) or full-scale structural level within its own fractal algorithm, not provoking a loss of system-wide correlation.

Thus, to joint the certain "charge" to itself, the system, which is a self-affine hypersphere, must implement an energy potential, sufficient for construction of fractally deployed structural complexes (enveloped) similar to its prototype both inside, at all, or some of their levels, and uniformly over the periphery. This system can only discharge the large-scale analog of interrelations, which, as a kind of structural group, until the discharge has been consistently implemented in a common fractal structure. The reason for discharge can always be only one - it is initiated increase or preservation of its own sustainability in terms of hyperspherical interaction pattern.

So, if wave functions due to their effective coherent conversion come to an absolute correlation, the effect of counter-resonance results to occurrence of a quantum form, forming a fractal structural frame of interrelations. At the same time there is a certain limit of required energy, as the minimum value of electromagnetic field density sufficient for adequate distribution of potential from a perspective of existing structure of the prototype. Inherently, self-affine prototype can not synthesize asymmetrical structure. Therefore the energy potential shall be sufficient to be redistributed evenly over the corresponding fractal algorithm within some, even the most superficial level of the system. The structure of a particular quantum form has a capacity well defined by amount of resonance links, i.e. it is able to retain a certain amount of energy potential. Hence, any energy potential, more than the minimum limit and less than the maximum possible for the perception limit, will be assimilated and redistributed within the entire system without its overload, and disintegration of such a system is possible only if it simultaneously consumes energy potential, no less than its own, and the process will simultaneously run



in two opposite directions - differentiation with release of minimum subforms from a perspective of the system increment and integration of categories obtained in the structural matrix defining the system prototype.

Structural evolution of any non-elementary structural community consists in consistent advancement to absolute intrasystem equilibrium and stability (which does not mean, however, termination of functional activities). The smaller the number of intrasystem conflicts of any kind, the more stable structure is as a whole. It can be argued that all forms of pathological manifestations of functional processes of the biological organism or complex of environmental physical interactions are a manifestation of some typical system contradictions in the form of initially insufficient consistency in program-arranged categories of adequately systematic course of many different intrastructural exchange reactions, having, as is known, the electromagnetic nature.

The numerical characteristic of the first level of stability of any system — the number of intrasystem processes qualitatively formed according to their own program-subordinate basis (prototype) must be not less than 61.8-66.6%, which follows from the principle of domination of dynamic derived form and characterizes the tendency to form stable resonant wave stationary structure of the object. It should be noted that the percentage of erythrocytes of the correct shape in human blood makes exactly this value. If this correlation does not exist, the organism tends to self-destruction and death. Thus, the presence of even 61.8% correlation of intrastructural exchange processes of hypercluster biosystem provides a long enough level of functional stability.

Consequently, the main vector (stem form) of evolution of any hypercomplex system, which is a priori a part of the global hypercluster structure, planetary and the larger environment is seeking to absolute internal and external correlation of any and all proper program-oriented exchange processes, provoking spontaneous differentiation of all trends forming derived errors not authorized by information and program prototype. This directionality of sequentially increasing program-oriented self-regulation ensures transition to a superior stability state under all forms of physical reality that can be unhelpful for a particular object only due to the fact that the surrounding space (as macroobject) is arranged less qualitatively, than itself. In turn, if the space is organized more qualitatively (ie, coherent) than the object, it will model in relation to it only positive trends of structural regulation, correcting any emerging dissonances. This phenomenon underlies superstability of the Universe megaspace formed based on the dynamic interaction principles, relying on its own basic prototype - quantum hyperspace.

The evolution of any hypercomplex system, of course, always being in the hypercluster structure



of the global hyperspace consists of two stages. The first - when the proper organization of the given subform is less constructive in relation to the environment, and common fractal-deployed space structure in this case manifests itself as directly structuring program, stimulating development. The second stage starts when the object corresponds to the structural quality of the external environment hyperprototype, and the level of conflict between them is zero. As a result of consistently formed tendency to regulation (in available positions) of any kind defects of its own design, it passes through a certain threshold, defined by the corresponding physical constant - macroanalog of the Planck's constant, and takes a fundamentally more stable structural form, fixed as a new program composition both relative to its DNA matrix, and to the basic planetary hyperprototype. Such an object automatically starts to generate its own principles of organization to the available environment, becoming its harmonizer and equalizer (coherenter) from a perspective of hyperspace prototype.

As a consequence, the objective cyclicity of intersystem macroregulation process is universally triggered when redistribution of relevant program-configured potential, its fixation and generation in the outer space, covering a specific sector (range) of the environment are consistently provoked. Correction of structural aspects of the potential in a more fractally global plan and transition to a new level with fixation of a new pattern, more constructive in relation to the previous stable level (refinement of refinement), etc. is formed sequentially.

Thus, from a perspective of quantum hyperprototypes, there is gradual modification of the program potential required for the existence, and the object can detect it only in the event that it is structured by the principle of semantic base or segment of this system. If structuring in accordance with the optimal principle of the system correlation does not occur, the presence of quantum barrier does not allow to transform the existing potential into the object corresponding to prototype parameters.

Objects that exist within highly dynamic processes, are able to interact with any wave pulse, however small it may be. Absolute structural coherence of a quantum object defines quite different principles of interaction. As an integral monoform it will take potential only if the proposed structural organization corresponds in scale to parameters of the prototype, determining its program-oriented integrity.

Since hyperspherical quantum structure at the expense of its own correlation and fractal systematization is the most neutral object in relation to the more polarized dynamic environment, the vector sum of intrastructural interactions (redistribution) of any medium of an electromagnetic nature will be directed towards this object. As a result, the potential of the environment, according to known physical law, is constantly striving to fill this zone. On the surface of a quantum system as the most neutral object



in the form of a spherical envelope, an additional level of polarization (charge) is always formed, representing a purely surface process, absorption of which occurs only when its intensity (charge density) reaches a certain critical level, initially requiring elementary consistency. Quantum transformation is not possible until this moment.

As a result, a quantum object, from the perspective of an outside observer, will be a certain area periodically absorbing energy of the surrounding space. However, energy will be only "approach" to center of the object to a certain level, forming at the periphery of the barrier membrane a spherical envelope, inside of which there is completely correlated object, from the point of view of an external observer, fractionally (quantum) absorbing any transformed "in their appearance and likeness" energy, commonly referred to as a "black hole", single phase "remote server", local dimensions of which should tend to zero ("zero point"), and the energy potential transformed into fractal quantum hypersphere - to infinity. Potential that is not enough structured to or greater than the volume required for formation of a new structural level of a quantum object is differentiated to elementary particles, which, because of their universal nature may be used to form a new potential by any object of the electromagnetic Universe. The existence of such a flow determines existence of thermal radiation of black holes, but inside the black hole, there is no any information loss.

This phenomenon stipulates the process of redistribution of active potential of an electromagnetic nature, from high concentration areas to more neutral zones. Quantum "frame" of the megaspace forms this process as a natural energy conversion (transformation) into the form, endowed with specific properties and determined by its structural prototype.

Of course, there are conditions that allow to convert absolutely consistent, neutral, supersteady system of hyperspace quantum storage of the universe software (hyperprototype) to simultaneously "deployed" structural model (quantum fractal cloning) of the megaspace. We can assume that hyperprototype of any physical space is a certain "very small", but energy over saturated program-configured quantum matrix of fractal type. Speaking about the concept of the absolute correlation of its structural aspects, the linear dimensions of this object, tending to zero, should be correlated with the concept of an elementary particle related to the Planck constant. This is the most dense (saturated) and the minimum "volume" of the quantum unit of a superfractal hyperspace, which it can take regardless of its actual "energy". As a result, the potential of such a system can be equal to the potential of the Metagalaxy or the Universe, and "linear dimensions" will not go beyond a certain "elementary" particle. According to calculations based on the "string theory", a physical object of our space may have limiting minimum size corresponding to the so-called Planck size (10^{-35} m), after which the object is re-deployed, but in a new



quantum form.

This is probably due to the fact that for the universal storage of program aspects - megaintegral self-affine quantum object (hyperprototype)- there is a certain saturation "limit" associated with the fact that upon reaching it the hyperquantum program system feels the need (trend) to simultaneously deploy into a megaspace quantum structure (quantum leap). However, an instantaneous occurrence of the quantum framework of the Universe megaspace - is not a "big bang", which is a chaotic dynamic expansion (velocity-time-out-of-phasesness). In this case we are not talking about any random process. On the contrary, it is strictly schematized instantaneous "deployment" of accumulated program-oriented potential according to appropriate fractal algorithm into hyperspace structural frame "skeleton", which matrix architecture discrete determines occurrence of energy, matter and time periods of their counter transformation in the megastructural space.

Such a process, of course, initiates occurrence of "free" energy in the form of dynamic wave functions. Up to this point hyperquantum fractal program-configured object ("zero point") is absolutely correlated and has no standard physical components, it does not radiate "anything" as any incident momentum is differentiated by the fact that its structural envelope is a multi-level universal coherent converter, similar to the direct and reverse Fourier filters processing at the same time the entire frequency spectrum of an arbitrary frequency range and thus isolating from the environment and absorbing only "pure" program categories in the form of an infinite series of harmonic functions, automatically correlating them with their previously fixed analogs.

Instantaneous fractal deployment of such an object occurs along countless implementation vectors (multi-level refinement) in the form of radii of inertia of the megasphere expanding as a result of the quantum deployment (self-extracting program-oriented function), which already has an electromagnetic nature. Along these vectors a highly-coherent hyperprototype potential previously structurally fixed in hyperprototype, fractally deploys its own program, making itself the center of megaspace system common to the whole complex of the Universe. Projection deployment of software analogs (basic foundation of the process) takes place through fractal cloning of projection of the base phase center according to strict structural pattern specific for each fractalization step and defining the relative position of arising derived prototype clones as a "phase" frame, redistributing energy load of the Universe.

Considering the biological organism, consisting of 10^{15} cytostructural analogs, as an example of global hypercluster system, it should be noted that, firstly, it is based on a specific, genetically fixed, program-oriented principle, and secondly, the more intrastructural contradictions it has, the lower its physiological features and the faster it destroys itself and dies. And finally,



thirdly, in the biological organism, as in hypercluster system, there is a strict hierarchy of subforms (protein cells) from the most simple (elementary) to extremely susceptible (complex), combined into systems and subsystems that perform their specific functions. However, they do not mix with each other, because there is a system of barrier membranes, which form separation both of program-oriented functional rhythms and possibilities of physiological manifestations of various entities of the system in the form of a pronounced dominant of characteristics of proper radiation (superposition) range, bearing information copies of their functional basis.

The process of formation of hypercomplex systems of any type results to occurrence of barrier membrane packets occur, determined by relevant physical constants that is fully confirmed by well-known natural phenomena. Any fractal design with respect to the central zone or zones that became central at a particular level of its fractal architecture, is separated by barrier membranes, existing as conversion areas, determining the need for transfer or replacement of the program-oriented algorithm or signal involved in the previous level to the structure shape appropriate for that barrier. As a result, passage through such a "filter" is possible only in case of adequate change or correction of the principles underlying the previous movement, action or existence. Thus, translation of the control signal from the central zone of the system to the periphery and vice versa is always accompanied by its step by step modification through the complex of "nested" fractal converters.

«Energy does not arise out of nowhere and does not disappear without a trace, passing from one form into another». This principle is implemented from the perspective of a consistent structural conversion, forming the dominant scale of transformations of software-bearing wavelength range quantum hyperprototype in the form of a "pyramid" of basic constants, and defines an extremely important thesis, stating that application of certain technology, methodology or principle to exit the conflict zone (development), allows to reach only the next barrier quality level. Furthermore, arbitrarily powerful injection of active potential without adequate change (correction) of the layout principles of structural algorithms that underlie an enabled semantic matrix by its correcting modernization, is not able to provide transition to the next zone of structural quality defined by the fractal pattern of corresponding quantum hyperprototype.

Such statements can be interpreted as a process of quantum change in the level of intra-structural architecture that is objective for open self-sufficient (able to exist outside of the sum with their own analogs) hypercomplex (fractal structure) systems.

Of course, the general principle of availability of barrier membranes converting the active potential in the particular case is implemented as the law of matter, energy and information conservation.



Each barrier membrane as an envelope of corresponding fractal converter requires to change the algorithm used, being, on the one hand, the fractal space-wave or, in case of a quantum object, program and semantic filter that passes only pulses converted by a pattern, determined by a basic prototype and laws of existence of the structure of this matrix, and on the other - a protective envelope that separates one counterinteraction program level from the other.

So passage through the barrier membrane of each of the infinite number of hyper- and mega-spaces of fractal converters both from the center to the periphery and from the periphery to the center is possible only in case of resonance intersystem correlation of program-dependent principles underlying the prototype of the modeled process or object.

Summarizing the analysis above, we can draw the following conclusion: any complex system tending to stabilize is a structural complex, formed on the basis of three key positions both in the form of magnetic and electric components of the polarization vector of any wave momentum, and in the framework of energy, matter and information, integrally defining a three-level fractal system α - β - γ . Each of the positions is formed as a universally correlated as a result of counter-resonance with its absolutely adequate counter analog, but separated by barrier membranes system of fractal converters, initiating multidimensionality of layout, multi-level coherence of interaction and systematic hierarchy of basic constants of hyper- and mega-spaces of the Universe. Moreover quantum hyperspace deployed in the form of structural framing bears infinite number of fractal hyperspaces both of a proper quantum deployment (black matter), and the structural architecture of a similar number of "nested" physical fields of electromagnetic megaspace of the Universe, synthesizing material reference cavities in the form of stellar systems.

Thus, the fractal converters are the objective form of realized manifestation of the infinite Universe, which structure and development are clearly subordinated to the particular dependence of deployment of proper universal quantum basic foundation (hyperprototype) into derived energy-information form through the volume multilevel factor of proper projection that defines diversity of electromagnetic surrounding megaspace, based on the hyperspace quantum frame.

When presenting the basic foundation in the form of $B_0 (x_1, x_2, \dots, x_n)$, and the fractal mapping function (e.g., scaling and offset) - through $F(B_0)$, an iterative process of formation of the fractal structure of hyper- and mega- spaces in general can be described as:

$$F_k(B_0) = \sum_{i=1}^{k-1} F_i(B_0) ,$$



reflecting the hierarchical principle of the structural organization of the counter-interaction system.

The level of conflicts within any arbitrarily chosen hypercomplex system, in case of necessity to produce functionally active, stable structure, must tend to zero, defining a principle of universal multi-level correlation (coherence).

From this formulation, characterizing one of the necessary conditions for building a stable spatial structural organization of any type, it follows that resultant of various categories of counter interaction with any number of units, should tend to zero, thereby defining the principle of the universal coherent transformation as a fundamental factor. This statement applies both to the three-dimensional system «X, Y, Z», and to the self-affine hyperspherical form having a certain number of structural components of different dimensions tending to infinity.

For the counter-vector interaction this equation can be written as:

$$X^n + Y^n + Z^n + \dots + N^n \rightarrow 0$$

This formulation implies simultaneous solution of all the components of equations of this space hypercomplex, the number of which equals the number of interactions that determine the process in question.

In case of interaction of system-wide hyperobjects of different fractal dimensions relative to a common "zero" center (phase transition into the next area of quantum fractalization) the equation becomes:

$$\sum_{k=1}^n X^k + \sum_{k=1}^n Y^k + \sum_{k=1}^n Z^k + \dots + \sum_{k=1}^n N^k \rightarrow 0$$

This refers to levels and their structural designs, forming a two-dimensional topology of a plane surface closed in the form of sphere in space of more dimensions, generally defining a closed subspace of another dimension than the base space having 26 axes - the minimum number of vectors of counter interactions transforming wave function into stationary object.

Any hypercomplex structure is separated by barrier membranes, the essence of the existence of which is that each of them forms proper structural and topological differences (particularities defined by hypersphere fractalization coefficient) based on the previous level, and hence the need for modification of involved structurally configured algorithm or signal in a very adequate form corresponding to that



prototype.

The structural design of each quantum prototype that can serve as a basic matrix for construction of a stable hypercomplex system, should be a highly-correlated fractal module with its unique fractalization factor, with a well-defined, the most balanced self-affine pattern, and being at its level an absolutely stable object capable to qualitatively edit program-systematized principles coming from the surrounding area and "minor" converters (hyperspaces).

The concept of fractal cloning (fractalization) of objects involves formation of derived fractal analogs of the original object (prototype) with a specific law of choice of similarity coefficients, nonlinear depending on the constant, which is called the base fractal conformity factor. Object obtained by fractal cloning is self-similar, and bears spatial characteristics of its own prototype, multiple to sizes of the original and all the other objects of the sequence.

Mapping is called affine if it is a combination of rotation, reflection, shift, scale of the original object with respect to the point of origin, and self-affine if the object is mapped to itself. If we take a spherical object as the original unit (prototype), the result of its self-affine mappings and transformations will be a "hypersphere" or sphere assembled from proper large-scale analogs. It will be a fractal correlated, i.e., coherent system, forming inner levels with a counter-interaction directional pattern common for all their subsystems, being a quantum object, in case of 26 fractalization vectors (minimum number of counter-interaction vectors) and therefore fractalization process of its derived analogs is possible only as a result of instantaneous quantum transition fixed on the potential envelope.

It is logical to name the basic prototype underlying the structure and law (algorithm and program) of its projection by a quantum fractal converter. Notice that since hyperprototype of the surrounding space is an integral set of "nested" into each other hyperquantum fractal prototypes tending to infinity, each of them has its own basic pattern, which determines its own best principle of construction and deployment of hyperstructure frame of the Universe megaspace, having, in turn, an electromagnetic nature.

Before giving the following statements, which are the basis for the corresponding algorithms for constructing physical objects, it is necessary to formulate a general idea of hyper- and mega- spaces of the Universe as the functional basis of any type of environment.



The concept of space

Of course, it is necessary to distinguish between the physical environment of any type from the notion of hyper- and mega-spaces as a basic frame or functional basis, consisting of "nested" fractal modifications with quantum (hyperspace) and electromagnetic (megaspaces) nature. These systems are interconnected through a quantum prototype in a multilevel conglomerate that generates an infinite variety of forms and manifestations of megaspaces of the Universe that can exist physically, synthesizing matter of any type, relying only on the basis of its own - a superstable universal software of the quantum hyperprototype.

Unfortunately, the definition of the space itself is slightly formed in a strict conceptualization. Traditionally there were various concepts of "space" as a separate medium - material, field, etc. But what are hyper- and mega-spaces, i.e., some basis, in which the planetary "environment" exists as a material entity of the global hypercomplex structure of the Universe? At this stage, it is necessary to clearly formulate the concept of quantum hyperspace determining correlated existence of enormous range of electromagnetic radiations of megaspaces generating a set of different types of material derivatives.

To allow the structural approach to this question, it is necessary to find out what is happening at the moment of the primary global deployment of fractal hyperquantum prototype of the Universe megaspaces, synthesizing program-configured conglomerate, representing multilevel systematized metagalaxy environment, having electromagnetic nature.

It should be noted that such hyperprototype, without specifying its nature and characteristics, though, it should carry a certain number of properties. The first property - it must be absolutely neutral and have the ability to accumulate in itself, no matter what way, assembled, but specially-engineered universally supercoherent information potential sufficient for synthesis of the whole variety of energy and matter, which is fixed in the foreseeable form of metagalaxy. It can be argued that hyperprototype of such an environment shall be a completely coherent hyperquantum self-affine object, which potential tends to infinity.

In this case, there is necessity a fractal-space, universal structural pattern compressed in the hyperspherical "nanodot" that allows to produce its own large-scale coherent transformation, allowing to fix an infinite number of program categories in very small, but information-supersaturated "volume". Deployment of this hypersystem can occur only as a proper instantaneous (quantum leap) fractal cloning. The basic process prototype can be only high-integral megafractal quantum hypersphere in the form of highly coherent self-affine object. Its program-oriented fractal "deployment" generates corresponding multilevel quantum composition - superframe of the megaspaces universal control field with



electromagnetic nature, with central-wide phase center and a system of child phase centers.

The central phase center of the reference frame of simultaneously deployed megasystem of physical fields is a hyperquantum absolutely neutral self-affine object, integrated design of tending to infinity set of nested quantum fractal prototypes, being a phase ("0") for any and all counter functions involved in the Universe megastructure (the first derivative of the quantum hyperprototype). The next level (2nd derivative) is schematized design of phase centers that are the basis for any and all functions, except "central", and then - 3d derivative (multiplication of 2nd derivative with simultaneous synchronization of synthesized subforms). All of them are correlated and schematically interconnected forming a megafractal structural phase frame of the hyperspace, which is 4th derivative and the basis of electromagnetic space of the Universe.

A full-scale interaction with the wide-range coherent radiation is available from any part of the structurally transformed range with possibility of full control and management of the entire complex. Thus, initiation of the control reaction in only one available range or the local segment of the space, allows to control all derivatives arising in the process of interaction of any nature.

As a result, such program-configured phenomena as superconductivity, super density, lack of time and so forth shall be present in the base hyperquantum prototype as physical and program-subordinate base of the Universe megaspace. Hyperquantum prototype should contain the principle of absolute coherent conversion universally correlating and stabilizing a giant energy potential of the megaspace that, after simultaneous fractal deployment (quantum leap), excluding otherwise inevitable phase conflict, provoking spontaneous, explosive all-out disintegration of the metagalactic conglomerate, generates a huge amount of reference cavities in the form of material systems of different types around its phase centers (quantum transitions).

How an instantaneous "deployment" of the base hyperprototype occurs, and how it forms the complex of interactions that make up the concept of physical space? Saturation conditions, causing "transition" into a new form with the discharge, non-meeting the typical conditions of this potential process, must necessarily be fulfilled in order to completely coherent universal hyperquantum prototype accommodating a program potential, tending to infinity, will simultaneously transform, systematically deploying as a consequence, its own derivative into megaspace physical macrostructure, inducing diversity of energy and matter.

Of course, this constant exists, since the existence of the mega-Universe in the form of superstable hypercomplex system having electromagnetically informational nature, is undeniable. As part of its generating synthesis of quantum hyperprototype it must be implemented the principle of simultaneity,



without which the unfolding structure will not have a proper positioning accuracy of phase centers in the form of units of the deployable complex spatial lattice. Hyperquantum object which linear dimensions have been tending to "absolute zero", having in its composition an infinitely high information potential, upon reaching a critical density (constant), simultaneously transforms into an entirely new form, creating thereby proper derived analog, global-scale macrocosmic megafractal quantum object, structurally systematized "in its image and likeness".

The resulting 1st derivative can be transformed only into megafractal hypersphere (Poincare hypothesis), similar to the original prototype, since the projection deployment of non-assimilated potential of any one of the possible vectors, is impossible in view of the absolute neutrality of the universal basic foundation. Hyperspace of the Universe is a multilevel quantum hypersphere - completely self-affine object that does not have the standard material nature, which number of levels corresponds to the number of quantum fractal converters of the original hyperprototype. Fractal deployment of this hyperquantum entity may occur only simultaneously, around all the number of radial fractalization axes determining its integral structural prototype, although the very concept of "radius" as the linear option in this case is extremely subjective.

Instantaneous fractal deployment of the first derivative forms a metafractal structural analog of hyperprototype - spatial macro-structural entity in the form of a quantum field (hyperspace) of the corresponding type. The quantum nature of fractal cloning initially defines instantaneous formation of an integrated set of topological envelopes-levels (quantum converters), each of which has a strictly arranged phase centers (prototypes) that define algorithms for solutions of the hypercomplex equation of universal correlation of deployed electromagnetic megaspace (1st derivative) with the required accuracy for the current level. With each subsequent step of the derivative fractalization towards periphery, number of phase points belonging to the same level decreases, resulting in a gradual error accumulation in joining equation solution.

Thus, the base superfunction is simultaneously set, synthesizing unambiguous characteristics of the system, defining parameters of initially synthesized space, macro-structural organization of the Universe, which became the basis for emergence of the full range of wave functions in the surge zone - peak of its amplitudes. Since the difference in the parameters of the primary hyperquantum prototype and its deployed analog is extremely significant ($R_1 \rightarrow 0$; $R_2 = N$), emergence of inertia, creating subsequent expansion of instantly synthesized in megaspace-time continuum of self-affine metafractal hyperstructure is inevitable. Simultaneously deployed structural lattice of the megaspace (quantum process) will cause the difference of electromagnetic potentials for an infinite number of vectors connecting the center of the



structure, which in this case is completely neutral phase center (hyperprototype), common to the whole structure, and subsequent proper fractal modifications.

As a result, immediately after implementation of instantaneous hyperprototype quantum cloning factors the potential difference - dynamics, generating an expanding cascade range of radiations; and the concept of time period (cyclicity) as a characteristic of the exchange interaction rate, which is a step in this wave interference arise. Thus, the highly coherent wave structure resulting from simultaneous deployment of the hyperquantum prototype forms a set of proper derived analogs cascadelly expanding and filling the entire wave range, increasing parameters of the basic wave simultaneously with the same change in the oscillation frequency, counter deploying in opposite directions.

Only a system of reference structural architecture of the quantum hyperspace, carrying any and all program-correlated information potential of the Universe, initiates processes that determine essentially the concept of physical megaspace, which, again, should be formulated.

Due to the fact that each wave function forming spatial wave fronts having a particular frequency and a diagram of polarization, starts to counter interact resonating with proper frequency analogs, a process of correlation of wave fronts of the corresponding frequency parameter, which is only possible through the correlation of their own characteristics, based on quantum hyperspace occurs, self-regulation of interactions structure is initiated. All pulses of the same frequency band, going along non-parallel vectors for sequential correlation with counter wave fronts will be forced to adjust their trajectories as the incoherent interaction the maximum amplitude zone will cause disintegration of out-of-phased emissions down to the lowest possible values. As a result of this interference process, a tendency to harmonize the structure of the existing phase centers (quantum transitions) is initiated, which in the corresponding frequency range will determine the three-dimensional rectangular topological grids of their parameter, forming spheres of 26 (13 diameters) counter-interaction vectors, correlating electric and magnetic components of the polarization diagram, highlighting the basic function of the 3-level spiral-helix wave packet. Thus, within each specific range processes of counter correlation will occur forming stable spatial frame (13 axes) representing a unit cell in the form of fractal sphere with certain topological envelope being electromagnetic converter which converts wave functions into stationary (quantum) form.

From the position of the cell radii, wavelength multiple to fractalization coefficient of its quantum prototype fits as the dominant frequency range. The resulting space can be regarded as a kind of metaspace structure of auto-correlation of topology of wave structures in the form of hyperspheric cellular networks. The resulting derived superposition will form a spatial lattice in the form of multi-level fractal type hyperspherical matrix - derived (electromagnetic) of analog of deployed hyperquantum



prototype.

Thus, the full range of megaspace emissions is required to form an electromagnetic analog of quantum hyperspace - a multilevel structure, which is a stable megasystem of interactions of field structures, integrated "nested" into one another. Elementary interaction forms fractal hyperspherical structures, each phase center of which is its hyperquantum "point zero", analog of the software base prototype, where there are no dynamics, no time. It can simultaneously belong to an arbitrarily large number of similar structural configurations, thereby at the same time belonging to wave fronts of different frequency bands. As a result of correlation and adjustment of hyperspace supported by multi-level phase framework, there is a stable spatial mega structure of electromagnetic fractal converters bearing the hyperstructural complex of phase centers (hyperquantum transitions) that define a megaspace quantum system of coordination and redistribution of wide-range wave interactions of the Universe.

In turn, as a result of the redistribution of active potential, tending to fill a more neutral space zones on envelopes of the 1st barrier membrane of quantum hyperbase separating hyperspace from its electromagnetic derived analog - megaspace - a polar envelope is formed, where there are multiple counter-reactions initiating the synthesis of matter of various types.

Thus, the basis of the whole process of synthesis of matter of stellar systems is a megaphase complex of deployed hyperspace base prototype structure, being in strictly systematized correlation of its own program-dependent concepts bearing the basis of the correlated conversion of various dynamic processes of sequential change of relationships of automatically synthesized megaspace environment having a wave nature.

It can be concluded that megaspace of the Universe, determining existence of the entire infinite diversity of various forms of matter and energy (environment), is synthesized on the basis of going into the infinite depth of the nanoworld multi-dimensional, but absolutely strictly correlated universal system of hyperquantum, program-oriented fractal prototypes, forming, coordinating and controlling the entire range of wave processes of the mega-Universe in the global structure of highly coherent dynamic interactions.

There is a set of "trinity": hyperquantum prototype - energy - matter, which is a hyper- ("black substance") and electromagnetic megaspace of the Universe with lots of star systems. Breaking the structural balance of the mega-Universe, rooted in the infinite depth of hyperspace and relying on reference cavities of stellar systems matter, from the perspective of dynamic interactions of any nature is impossible, since redistribution of arbitrarily large-scale potentials occurs simultaneously for all hyperfractal quantum prototypes presented in the nature of emissions, generating corresponding



molecular structure of the matter. Of course, deformation of the superstructure of hyper- and megaspaces required to consume energy potential, at least, not less than the potential of "dark matter" of the observable Universe, which itself is radically absurd.

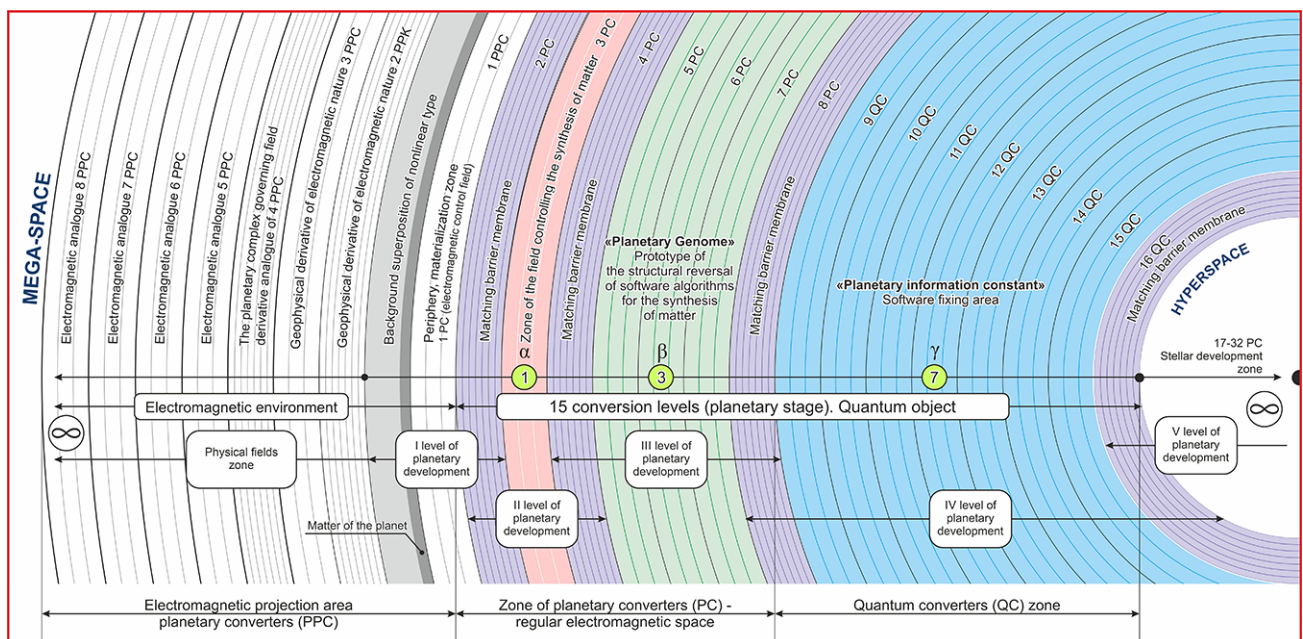
As a result, the environment having an electromagnetic nature (there are many types of matter and physical fields) is just a derived form of nanostructure of completely different, universal nature that is confirmed by multiple facts, generating the concept of quantum hyperspace as the "mysterious dark matter" dominant in space, which testing and fixation from a perspective with traditional pulse-wave radiation environment is impossible. This hyperspace metafractal basic foundation as a hyperquantum prototype is a carrier program and systematic framework of any and all dynamic interactions of any type, generating a derived analog of hyperspace - universally stable megaspace of the Universe, the dimension of which is determined by the scale of the entire range of available radiations, tending to infinity, enabling universal Eternity to demonstrate many dynamic processes with no risk of deformation, thereby defining a space-systematic structure of the macrocosm in the form of trinity of information (γ), energy (β) and matter (α).

It can be concluded that the quantum hyperspace complex divided by barrier membranes is a universal seven-level system of 512 (2-8-16-32-64-128-256-512) fractal-configured hyperprototypes of the Universe megaspace software, allowing emergence in its cells of fractally deployed structure of the vast amount of electromagnetic dynamic interactions that determine an infinitely wide range of counter-exchange processes, synthesizing crystalline lattices of any type of matter. This provision is experimentally confirmed by the Casimir effect in the form of physical vacuum fluctuations, so that two uncharged plates in vacuum are mutually attracted. The stability and neutrality of the hyperspace framework that, by definition, can not be detected from a perspective of the dynamic algorithms were tested and stipulated by the principle of quantum coherence, due to which virtual particles carry a primary dynamic manifestation of wave processes. Apparently, so-called elementary particles are "point" peers (4th derivative) of corresponding quantum fractal converter (QFC), "assembled" under the structural hierarchy of hyperspace of peers of "minor" QFCs.

The crystal lattices of all material objects are the result of synthesis based on program pattern of a quantum prototype containing a functional basis of the base pattern deployment process, occurring with formation of successive derived levels, each of which has its own quantum number that determines the topology of phase centers deployed at this level, connected in strictly determined spatial structural composition exhibiting current level deployment pattern. Gradual moving away from the center along radial axes can be called a vertical movement towards periphery. Number of

zonal levels of hyper- and mega-systems, separated by barrier membranes depends on characteristics of fractal composition of the hyperquantum prototype and features of its deployment as the basic foundation - and is equal to 7 in our Universe.

Let us illustrate this with an example of deployment of hyperquantum prototypes as a planetary system, which determines the following pattern: 2-8 – Quantum fractal converters 9-16 - Hyperquantum and on the basis of prototypes 2-8 QFCs - their electromagnetic planetary analogs assembled based on the corresponding fractal algorithm. Each fractal converter is the basis for the subsequent converter, and its serial number characterizes the individual fractalization coefficient.



The system is represented from the hypothetical center point (hyperquantum phase center of the Universe) to the planetary material periphery, from the sixteenth converter to the first one and further to 2-8 zone of planetary fractal converters in the form of four fundamentally different areas:

- 1) γ -zone, hyperquantum zone (8-16 HFC) of the software capturing that contains a complete description of an adequate process of synthesis of any matter in the planetary area. This area is a Planetary Information Constant - "software library", information space ("remote server") with a complex structure of internal connections;
- 2) β -area quantum area (4-8 QFCs) of structural algorithms of consistently arranged synthesis (transfer member). It is a fractal quantum object capable to absorb informatively arranged potential by only instantaneous addition to its structure of similar systematized level. Density of layout of its phase framework is so great that any manifestation of dynamic processes is impossible, despite gradual reduction in density of interposition of phase centers while moving



away from center to periphery ($8 \rightarrow 4$ QFCs);

- 3) α -zone, quantum area (2-4 QFCs) contains prototypes of correlation and control of periphery matter synthesis.
- 4) material periphery (1-8 Planetary fractal converters) - a system of ordered synthesis and coordination of different types of matter as reference cavities 2-8 QFCs deployed in the form of physical fields on the basis of the corresponding prototype 2-8 QFC.

All quantum fractal converters, which fractalization coefficient is a power of two (2 - 4 - 8 - 16 - 32 - 64 - 128 - 256 - 512) have a similar internal structure and bear functions of the zonal barrier membrane (analog of direct and inverse Fourier filter), correlating and stabilizing the structure of previous converters within 7-level differentiation and integration from the perspective of the principles of universal correlation. Seven levels form the system symmetrical with respect to the base center where three fractal derivatives are formed while moving away from the periphery to the center (immersion). The fourth derivative appears, forming a compact core, is directly a result of correlation based on which the next fractal converter.

Three derivatives of any self-affine fractal converter form a self-affine structure in the form and quality that allow it to "convolve" in the 4th derivative area in dot form, becoming a basic foundation for the next converter, but at another quantum level. Any and all converters require changing the algorithm for constructing their fractal structure, carry on 3 internal "vertical" levels in the form of three standard derivatives - α , β , γ , differentiable at 7 levels - where the fourth derivative of δ is also able "to collapse" into microdot - the functional basis for the next quantum converter:

- 0 - functional basis, super-dense point "file" (δ) - 4th derivative of the previous level, it is also the basis of synthesis of the subsequent fractal converter;
- 1st derivative - capture of the basic pattern (δ , carrying the pattern of this level on its "envelope");
- 2nd derivative - structured deployment of the base with its fractalization factor according to pattern given by the proper prototype;
- 3rd derivative - multiplication, activation and synchronization of structural interconnections;
- 4/1st derivative - a point object, correlation and capture of staged result, it is the basic foundation (δ) of the next fractal converter; is also the last (dot) link of the proper converter and the first (basic foundation - δ) of the next one. "I am the First and the Last, the Beginning and the End!"

2 Quantum fractal converter - 1 barrier membrane separating a hyperspace of the Major System (2-8 QFC) from the zone of dynamic interactions (1-8 PFC) - is a superintegrated self-affine hypersphere with fractalization factor of 2, which carries "nested" into each other "major" fractal converters, as well as



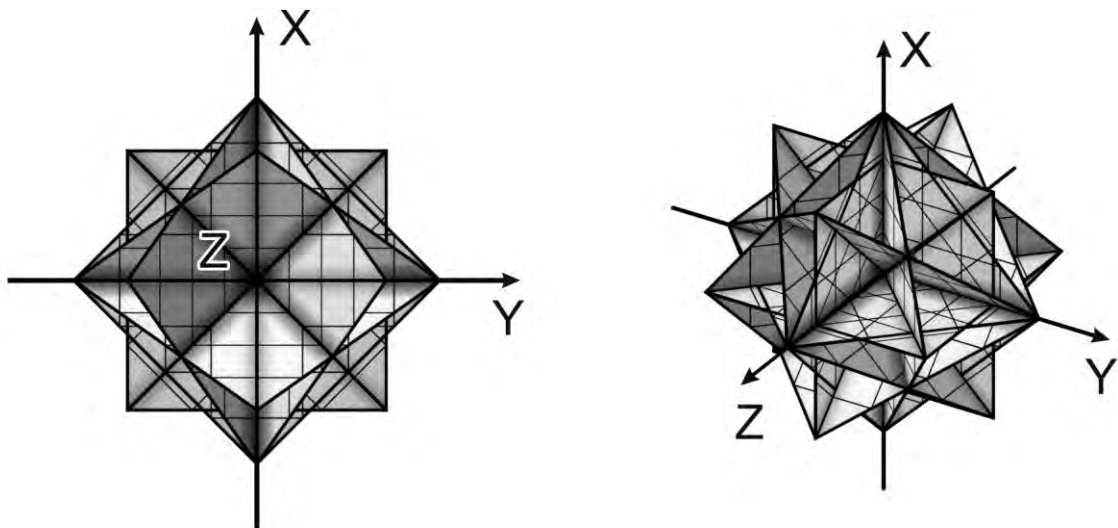
being their basic foundation, thus formulating the concept of the Universal Universe deployed like a Mobius ring "inside (hyperspace, from the Greek *hyper* - over) and outside (megaspaces, from the Greek *mega* - large)", mirroring itself when passing through the materialization zone (1 QFC) as macro- and microspace object, existing simultaneously in hyperquantum and megawave (electromagnetic) forms.

Since quantum hyperspheres of sets of "major" fractal converters going to infinity of hyperspaces have different quantum numbers that characterize the structural features of their patterns and fractalization coefficients, contradictions to the Pauli principle, which states that "two or more objects with the same quantum number can not be simultaneously at the same point in space" does not arise.

Each "major" converter, indicated in the hyper- and mega-spaces deployment pattern has a corresponding structural architecture assembled based on the previous "minor" converter as a functional base of its fractal structure with its fractalization coefficient in the form of a nuclear monoform.

Thus, in the macrosystem of physical fields surrounding planets of star systems, hypersphere with fractalization factor of 2 - Universal control field, direct and inverse quantum Fourier filter - becomes the basic foundation for all megastructural dynamic space of the Universe, being at the same time the "alpha and omega", "first and last", "the beginning and the end" of mega- and hyper spaces.

2 QFC is a "control field" and the prototype of a coherent synthesis of any kind of matter in the materialization area (1 PFC), shown as a spatial system of planar reference cavities initiating permanently correlated electromagnetic field in the form of a corresponding packet of raster grids.



Spatial prototype of 1 PFC

Since any regular structure generates electromagnetic superposition, supporting it, there is an electromagnetic analog of 2 QFC, which is a physical field.



Synthesized based on 2 QFC, and supported by a similar pattern of 2 PFC, spatial packet of raster grids 1 PFC leads to arranged materialization phenomenon, where principles and algorithms of existence of the material world, formulated by modern science in the form of physical laws and constants of the system corresponding to this planetary level are materialized.

1st (γ) derivative in the planetary electromagnetic space - the basic pattern (quantum prototype) of each fractal converter is the program base for subsequent stages of synthesis of seven "nested" fractal geophysical fields, reflecting the pattern of their own structural relationships in the form of appropriate type of structural lattice.

2nd (β) derivative of (pattern deployment) describes algorithmic of linear-dynamic base projection functions (1st derivative) under the control of the Major System in the packet of flat raster grids forming macrofractal pattern of electromagnetic geophysical fields.

3rd (α) derivative initiates activation and synchronization of structure of counter-exchange spiral-helix interconnections under control of 3 QFC, forming a correlated spatial set of wave functions generated by the first derivative (2 QFC) multiplexed according to its fractalization algorithm (2nd derivative, 3 QFC).

4th derivative (fixation), correlated from the perspective of 4 QFC is the result - the basic foundation (functional core - δ) of the subsequent conversion phase in the form of 1 QFC reference cavity of its functional basis in the form of appropriate "crystalline" lattice materialized in a particular environment. As a result, there are material reference cavities that generate proper superpositions in the form of structural fragments of geophysical field consisting of 3 "nested" fractal converters 2-3-4, integrally forming 7 correlation levels and determining the adequate synthesis of planetary material forms.

According to the fundamental laws of physics, energy spontaneously redistributes from zones of active potential concentrations to more neutral zones. As a result, around 1 barrier membrane (2 QFC) in zone of 1 QFC, an envelope of polar elementary particles appears seeking to penetrate the most neutral space of 2-8 Quantum converters - in the Major system, Planetary Information constant, superintegral hyperquantum single phase complex of infinite number of nested fractally structured hyperspheres, divided into 7 zones and limited by the barrier membrane 512 HFC, which is the functional basis - "nano-hyperprototype" of this Universe.

However, 1 barrier membrane (2 QFC) as a quantum object is able to "absorb", transforming the surrounding polar wave flows with electromagnetic nature into its own quantum analog, only proper structural analog, regardless of its structured capacity or potential "volume" sufficient for full fractal cloning. Of course, its "accumulation" requires the necessary period, defining formation of highly



polarized "critical mass" of potential on the surface of 1 barrier membrane (2 QFC), in zone of 1 PFC, located between the planetary quantum hyperspace (Major system) and megaspace of the Space, having an electromagnetic nature.

In turn, in zone of 1 PFC, rapidly increasing its polarization due to the constant flow of energy from the outside and disintegration of previously spontaneously synthesized volatile molecular compounds, there are processes of highly dynamic self-regulation, permanently initiating the synthesis of matter (4th derivative of interaction of spiral helix, linear-chain functions) of wide profile forming hypercluster matter of star system planets. This phenomenon is permanent, causing aspects of the well-known theory of relativity of A. Einstein.

As is known «energy does not arise out of nowhere and does not disappear without a trace, passing from one form into another». Concentration of the critical potential at envelope of the 1 barrier membrane causes a sharp increase in the rate of exchange reactions of any type in zone of 1 PFC, provoking synthesis of self-destroying matter that, in fact, initiates a "chain reaction" of transition of energy-potential, fixed before as a matter, back into electromagnetic form, repeatedly increasing background activity of stellar systems and planetary systems surrounding them. However, "accidentally" occurred structurally correlated elementary analogs of 2 QFC pass through the barrier membrane 1 and are fixed at an appropriate level of the Major planetary system of 2-4 QFC.

Thus, reaching a "critical mass" in the zone of 1 QFC, active potential triggers its absorption by 1 barrier membrane (2 QFC) in the form of instantaneous "quantum leap" that transforms background polarization of a planet, star, galaxy, etc. in its own super-dense quantum analog, leaving in the zone of 1 QFC potential carrying information projections of the Senior system and not assimilated by some reasons. Quite so the hyperspace structural density - "dark matter" of the Universe cyclically increases, tending to infinity of its fractal compositions having, however, subjective "density limit" limited by 512 barrier level of hyperquantum converter. Thus polarization of 1 PFC hyperzone abruptly decreases, which leads to arranged reduction of the background activity of the materialization area for a certain period. This creates conditions for long-term deployment in the periphery of "pure" program categories as a response of megaspace geophysical converters to projection prints of the "quantum leap" in the area of the materialization of the Major planetary system.

System of electromagnetic energy conversion into the quantum form (2-8 QFC) and further into a strictly-arranged program-dependent potential ($9-\infty$ HFC) is deployed in the form of megaspace superneutral centers ("black holes") representing "quantum transitions", surrounded by complex of self-affine hyperspheric envelopes (2-8 QFC), converting dynamic flows of polarized elementary particles to the most coherently stable, neutral, structurally configured matrices through direct and inverse Fourier



transforms. In the next phase (9-16 HFC) they release pure information, fixed in a single-phase "focus" of the Major System, which is a series of fractal sets (16 - ∞ HFC) striving to infinity, but, nevertheless, limited by barrier membrane of 512 hyperquantum fractal converter.

Since zones with a high concentration of active potential are always characterized by redistribution of energy and substance having an electromagnetic nature, intrinsic for dynamic space, resulting potential difference (environment - "zero point") creates a flow of energy along the radii of the described sphere, seeking to fill in zones of "quantum transition" capturing, settling on the barrier membrane (2 QFC) separating megaspace and material environment from the hyperspace.

The constantly running flow of elementary particles "from the outside", striving to fill a superneutral center of such a formation by natural, above described reasons, spontaneously "acquiring" the matter (1 PFC) in the form of planets, stars, etc. determines the concept of gravitation. Any and all material objects with electromagnetic nature have to comply with this phenomenon.

Of course, a pronounced difference in potential of "external" (mega-) and "internal" (hyper-) environment determines the level of a global gravitational effect in the materialization area in the form of "force fields" with appropriate structure. In turn, the most complete neutralization of the proper object polarization makes it free from this dependence that is described by the Einstein's theory of relativity, arguing that an object with zero mass (quantum form) is not subject to gravity and other restrictions, integrally forming a set of physical constants, triggering the phenomenon of instantaneous transmission of information code. Speed $\rightarrow \infty$, time = 0.

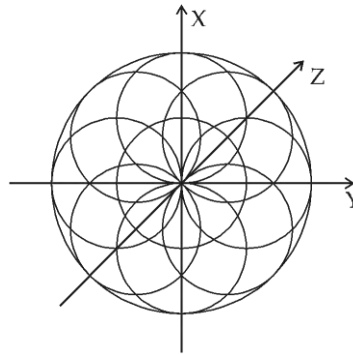
As a result, the synthesis of matter in the zone 1 of the Planetary fractal converter (PFC) is subject to the following categories:

- The first (γ) «horizontal» derivative of each fractal converter is the program basis for subsequent matter synthesis derivatives, reflecting the pattern of proper structural interconnections in the form of the corresponding type of crystal lattice.
- The second (β) derivative (multiplication) describes algorithmic of linear dynamic of the base projection functions (first derivative) in a specific environment.
- The third (α) derivative initiates formation of the plane array packet (1 PFC), which form the structure of counter-exchange interconnections, representing a property of correlation of the complex of wave functions, multiplexed according to the corresponding fractalization algorithm (second derivative) of the first derivative.
- The fourth derivative (fixation) is the resulting reference cavity of its functional basis-hypersphere of this fractal converter, materialized in a particular environment.



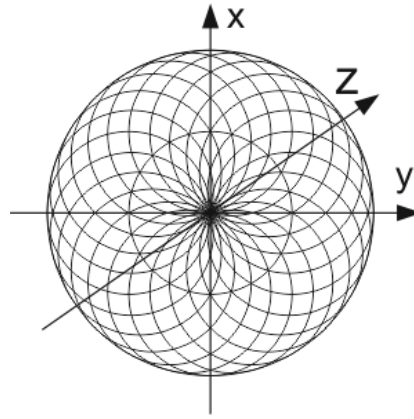
Prototype (quantum object) of universal control geophysical electromagnetic field forms 1 barrier membrane and consists of 2-4 QFC (2 QFC, self-affine hypersphere with fractalization factor 2 (26 fractalization axes, basic prototype of 1 PFC), 3 QFC with fractalization factor 3 (146 fractalization axes - 4 derivative of 2 QFC) and 4 QFC with fractalization factor 4 (66 fractalization axes 4 derivative of 3 QFC)).

Fractal form of 2 QFC is the base for hyper- (quantum) and mega- (wave) spaces. It absolutely satisfies the structural complementarity (coherence) condition, being a universal base of the integral complex formed on its proper basis according to algorithm of self-affine mapping outward and inward for a specific number of vectors (26).

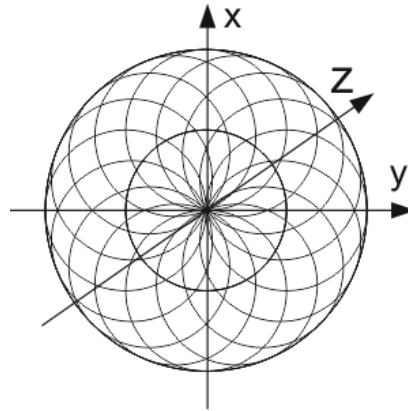


***The central cross-section of the 2 QFC prototype structure,
consisting of 27 base sphere analogs***

In turn, 3 QFC built on the basis of 2 QFC has 146 fractalization vectors; and 4 QFC - 66. These three fractal converters form a universal control hyperspherical matrix, which is a one-step quantum processor, carrying the principles of universal coherence, being absolutely neutral, and at the same time the most information-rich unit. Its electromagnetic analog in the materialization zone (2-3-4 PFC) is a universal direct and inverse Fourier filter.



*The central cross-section of the 3 FC prototype structure,
consisting of 147 base sphere analogs (4th derivative of 2 FC)*



*The central cross-section of the 4 FC prototype structure,
consisting of 67 base sphere analogs (4th derivative of 3 FC)*

Structural base density of each base sphere (see fig.) of the considered self-affine object corresponds to its volume ($V = 4/3 \pi R^3$), and the potential - to the first level derivative of this function is (VV). As a result, the overall structural saturation of three levels of the hyper-spherical structure will be expressed as

$$\left[(V^V)^{V^V} \right] \left[(V^V)^{V^V} \right]$$

and its scale tends to infinity.

Let us try to determine the lowest possible density of such structural units as the Planetary



Information Constant for $R = 1$. Let's round resulting volume $V \sim 4.1888$ to the nearest whole number for the convenience of further calculations, and calculate the density value according to the above formula:

$$\begin{aligned} \left[(V^V) = 4^4 = 256 \right]; \quad \left[(V^V)^{V^V} \right] &= 256^{256} = 2^{2048}; \\ \left[(V^V)^{V^V} \right]^{(V^V)^{V^V}} &= (2^{2048})^{2^{2048}} \approx 64^{10^{619}}. \end{aligned}$$

$64^{10^{619}}$ For comparison, we note that in the foreseeable part of the Universe, there are no less than 10^{11} galaxies and such star system as the Milky Way, consists of more than 10^{11} stars. The numerical value $64^{10^{619}}$, multiplied by the number of planets in megagalaxy, "commensurate" with infinity determines the minimum possible hyperquantum "energy information" potential of the Universe, expressed by the basic constant. As a result, it is possible to assume the dominant (in comparison with matter) presence of superstable and superneutral quantum structure (hyperspace) in all subsequent electromagnetic levels and zones of the Universe megaspaces; and this structure is absolutely coherent in all possible categories and is program-structured framework of the infinite Space.

Thus, the hyperspherical model 2 QFC, like all the "major" quantum converters, represents a program-oriented universal matrix of fractal type, creating perfectly coordinated distribution of information load in accordance with the principle of coherent conversion with lots of mutually containing zones, subzones, levels, sublevels of the corresponding gradation.

Self-affine fractal pattern of 2 PFC deployed in the electromagnetic planetary space and representing a direct and reverse universal Fourier filter, becomes self-sustaining after 3 stages of proper fractalization (quantum cloning), generating 3 level derivatives, nested in each other and having a common system center. The number the basic model (sphere) analogs formed on these stages will be equal to 27^4 .

This constant specifies the minimum number of simplest basic analogs of 2 QFC pattern, integrally, together with the 3 and 4 QFC forming its prototype - quantum hypersphere of the Universal control field of the matter synthesis in the zone of 1 PFC.

This hypersphere represents a quantum complex where the number of formed composite spheres with reference to each subsequent level of the system changes multiple of its proper fractalization coefficient, forming its own "elementary" particle - the basis of the hyperspace, meaning that the depth or

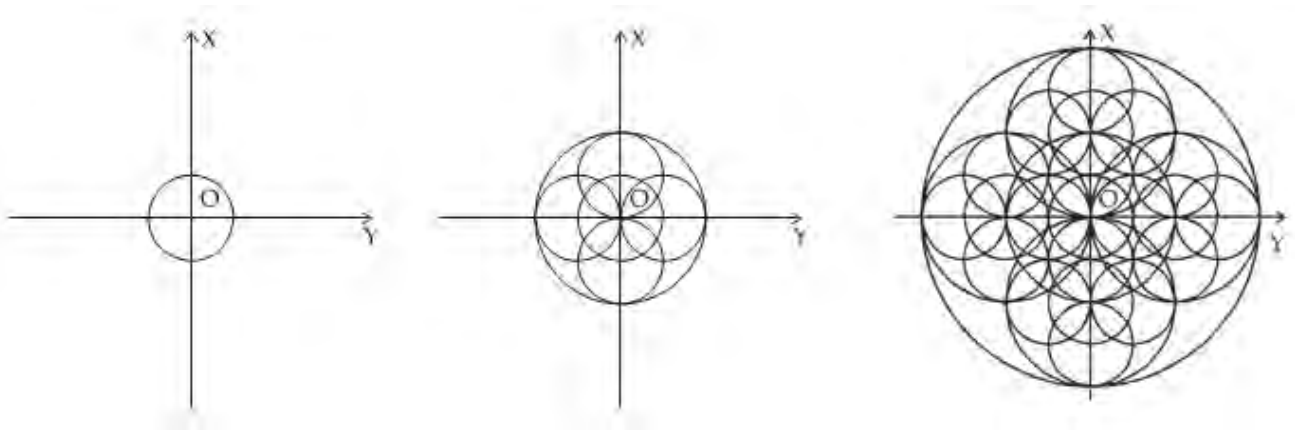


quality of correlation of any process is gradually increased by a set of orders each time.

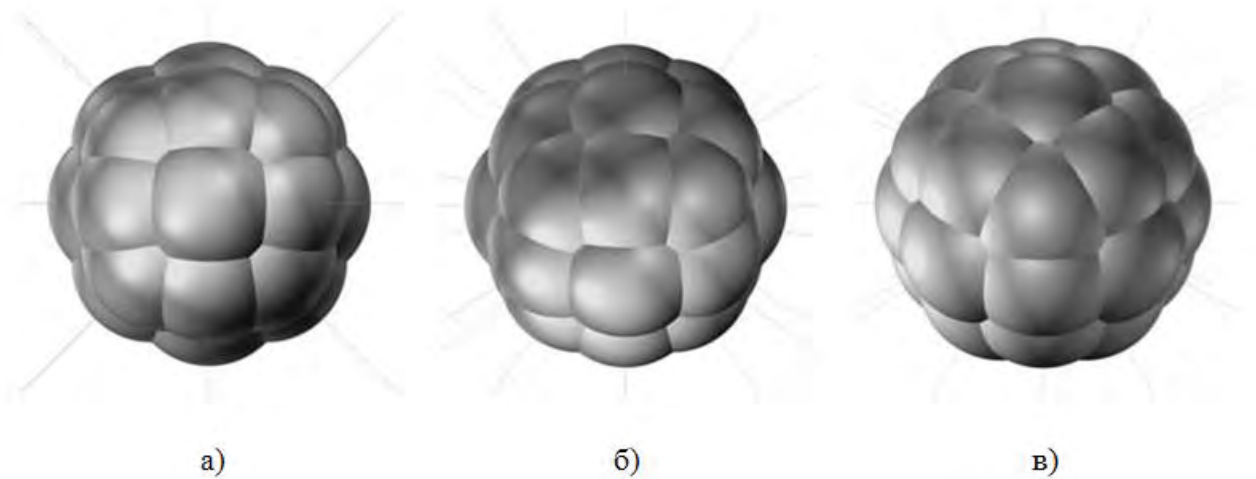
It should be noted the fact of automatic emergence of derived spheres at every stage of spatial fractalization. At the first stage of cloning, there are at least nine types.

To facilitate understanding of the self-affine fractalization algorithm, let us consider the process in the plane. Obviously, the basic element here will be a circle. Its radius and center will be called the base now. The cloning vector determines the point on this circle, which is the beginning by dividing it into N equal parts (i.e., the base will generate N proper clones at the same time). In the use of the algorithm, each step of fractalization simultaneously covering the entire structure results to the current base module, which can further be cloned, as diameter of the circle (wave), breaking it into two equal modules (half-waves), through the center, is automatically divided in half. This determines 3 derivatives, forming the concept of "wave, half-wave and quarter-wave."

Since any wave (dynamic) function can give only 3 own derivatives of spiral-helix tracks - spiral, spiral in spiral and helical spiral in spiral (wave), three fractal levels (derivatives) of 2 PFC are enough to form perfectly adequate counter function, stabilizing polarization vectors of magnetic and electrical components of 1-2-3 derivatives and allowing to initiate coherent transformation of the wave flow by amplitude, frequency, phase and interaction pattern.



Returning to dimensional patterns, we note that in the process of the base fractal deployment three modified spheres are formed, each of which provides its own fractalization branch, generating mesh structures of three types on its surface, and at the third cloning level of the pattern, there are 3 derivatives of the 1st order, 9 derivatives of the 2nd order and 27 derivatives of the 3rd order.



Three types of 2 PFC surface cells

Thus, self-affine hyperspheres are universally dimensional fractal objects. Their initial basic foundation - hypersphere of the "minor" converter - allows to adequately generate subsequent, unique in properties (absolute coherence), quantum structural form, which 4th derivative again is the prototype of the "major" converter. Each subsequent fractal converter uses the previous one as the basic foundation, thereby forming nested hyperfractal quantum sets tending to infinity.

It should be noted emergence of the number π at the first stage of construction of hyperprototype of subsequent fractal interactions pattern (sphere) - universal fundamental constant of a whole complex of the Universe megaspace constants: from the Planck's constant to a speed of light in vacuum, absolute-zero temperature, etc. Thus, the physical principle of quantum transformation of physical fields of electromagnetic nature is predetermined: as the process of instantaneous fractalization and gradation of possible set of semantic potential of any type, which is certainly due to intrastructural entropy and, therefore, determines formation of elementary structural relationships of a particular kind: point - interval - plane - envelope - structure.

Thus, there is always a delta (value) of the smallest possible quantum conversion, defined by the corresponding constant. Their total component generates the necessary potential "critical mass" (charge density), able to be retained by the existing structural composition on the one hand, and enough for a qualitative transition (quantum leap) in a better or, conversely, in a more primitive form on the other hand.

Since a consistent set of potential quanta defines the concept of "speed" and, therefore, the process time, the absolute phase coherence (on the basis of the common fractal structure of the object) can not be,



and there are only two possible ways: either disposal - gradual disintegration of yet not optimally structured potential (zone of 1 PFC), or instantaneous self-regulation through intersystem resonance provoking interstructural "crystallization" (fractalization) by type of existing structural framework, which in that sense is the program "seeding" of the process of gradual (quantum) improvement of the structural composition of the object.

Structural degradation is carried out by the same way. In the first case, there is absorption of energy from the environment with decrease in temperature of the object and the environment and in the second - on the contrary, the temperature rises due to release of previously structurally connected potential.

Therefore, deployment of hyperquantum space prototype into the mega-Universe, having an electromagnetic nature, provokes a change in temperature mode of environment from absolute zero to infinity, creating objects such as stars, which surface temperature is extremely high. A step-by-step approach of this materialization process of the basic foundation is initially predetermined by the primary basic foundation, derivatively transforming itself in space and time of the dynamic mega-Universe.

Thus, only an integrated hypersphere resulting from tending to infinity fractal quantum "chain" of basic prototypes, fixing a super-high program-correlated potential represents a Universal hyperquantum basis, enclosing an infinite number of program and information potential, in spite of tending to zero "local dimension" of its single-phase center - the "zero point". All other countless structural formations of mega-Universe which do not belong to this function, even in presence of the outer envelope, similar to a wave front closed in the form of sphere, have no properties inherent to quantum nature of the universal hypersphere, which is a completely neutral, accordingly fractally structured supercoherent, indestructible hyperspace object with infinitely high information density.

It should be noted that in occurrence of irrational derivatives, ie, derivatives having irrational structural geometry, even minimal discrepancies automatically arising from multiple projection duplication of quantum base of hyperspace in megaspace of the Universe lead to gradual distortion of synchronized symmetry of the next structural formations in the zone of matter synthesis of 1 PFC with loss of a universal factor and emergence of error trends, at a certain stage abruptly transforming reference cavities of the planetary control field (2-4 PFC) into a more primitive spiral-helix organization of space having electromagnetic nature.

Simultaneity of resonance fractalization of any type, both in terms of improving the structural quality of the object, and vice versa, its degradation, suggests the presence of the



quantization phenomenon, that is a step change in the program-structured potential, that, first of all, determines potential minimum necessary for the transformation for each fractal pattern, which in turn is a measure of electromagnetic space intrastructural entropy, enough for transition of a fractally-organized field structure to another (higher or lower) level of proper quality. Thus, coherent conversion of any type is a process of quantum development (or degradation) where Planck's and Boltzmann constants are adequately expressed.

In an absolutely correlated (coherent) electromagnetic system fractalization is carried out instantaneously over all vectors of dynamic interactions due to superconductivity of any element of the system. However, due to the fact that there is more inertial dynamics of sequential deployment and consequently, the potential difference (center-periphery), there is a concept of cycles and time period. It arises as a result of mismatches of structural components of spiral-helix linear-dynamic functions.

Cyclicity, perhaps, manifests in the quantum space as well, since a set of critical potential for a quantum leap requires time interval, but it is also a discrete time. Emergence of a potential difference between phase centers determines emergence of a line resistance, and hence the final rate of a "signal" spread. This phenomenon determines manifestation of the continuous time. The potential difference means its scattering in space with increase in the total entropy of the system.

From the perspective of a universal superconductivity of the hyperspace quantum system of interconnections, time, as a derivative of the speed of interactions, does not exist. As a result, the quantum hyperbase of the megaspace is superstable after 1 PFC, field geophysical envelopes in the planetary zone of electromagnetic environment are gradually modified to form a set of Universal control field - 2-8 PFC. The reasons for this structure are natural for a dynamical system of planetary space, the core of which is a completely coherent hyperquantum converter (8-16 HFC), all interaction vectors of which are directed to center. Up to a certain level (1 PFC), a system of planetary geophysical fields (2-8 PFC) operates as two-phase (periphery-center, center-periphery), and then, in quantum zone of fixation of 2-8 QFC able, however, to release in 1 QFC area their projection copies as a result of a directionally formed counter resonance - as a single-phase (periphery-center) system. The following 9-16 and further Hyperquantum converters represent especially single-phase system - "remote server", global software library, which is planetary, stellar, galactic etc. Information constant.

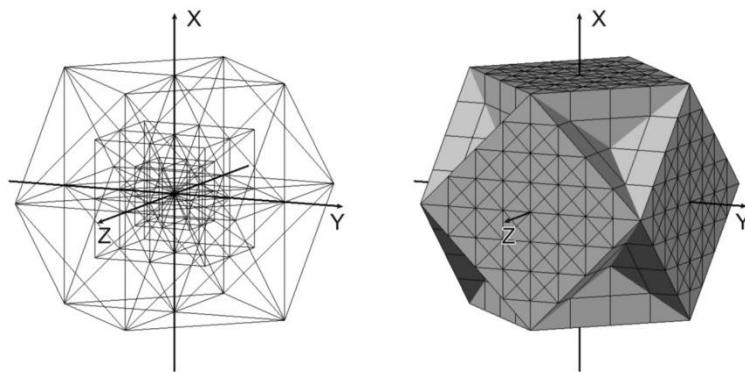
It becomes extremely difficult to satisfy the condition of stability of the system without the use of 'control field' 2-4 QFC for the structure, assembled from "flat" wave fronts (1 PFC) having at least one common point for all components (phase). Initially, orientation of the system of flat field raster grids requires introduction of simplest correlation of polarization vectors and their magnetic and electric



components by introducing a completely adequate counter function formulating a perpendicular three-dimensionality in the form of orthogonal coordinate system. Otherwise, the structure helimerizes in haphazard bunch, prone to self-destruction as a result of intrastructural out-of-phasesness.

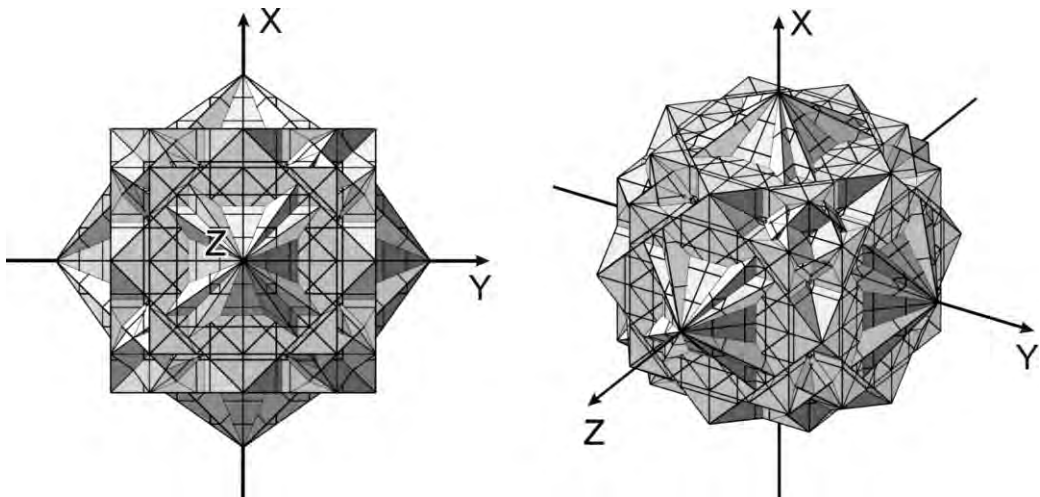
Thus, in each of the available wave fronts, 1 PFC - basis of program-oriented pattern of synthesis of any matter - will represent three mutually perpendicular parallel, structurally shaped topological planes, differentiating and correlating polarization vectors of electric and magnetic components of the wave flow. In other words, a corresponding multi-dimensional, from a perspective of general wave packet, spatial orthogonal lattice is created in the form of a three-level structure of mutually containing planes from a perspective of wave - $\frac{1}{2}$ wave - $\frac{1}{4}$ wave, thereby forming a spatial raster structure, which is a carrier (phase) frame for any and all counter and exchange processes having wave (electromagnetic) nature.

The simplest self-sufficient (coherent) fractal object having the above characteristics is a three-dimensional packet of flat raster grids (9x9), integrally forming cuboctahedron with inscribed three-level cube, consisting of mutually integrated cubic modules.



Prototype (1st derivative of 1 PFC)

In turn, 3rd derivative of 1 PFC is as follows.



In this case, the area of an ordered matter synthesis 1 PFC is formed, representing a system of conversion of electromagnetic geophysical fronts carrying inscribed 2 QFC pattern controlling the spatial and temporal correlation, its multiplication and synchronization pattern 3 QFC and 4 QFC inscribed in a cube octahedron lattice. Thus, the structure of universally in-phase 1 PFC in the form of packet of raster grids is formed, controlled, synchronized and managed by complex 2-3-4 QFC through a common phase center.

The tendency to counter fractalization along the main axes of the constituent cells emerging as a result of increased polarization by corner components of raster grids of 1 PFC initiates formation of chain spiral-helical projection tracks oppositely twisted relative to the system center.

Processes of potential inertial release along appropriate vectors to periphery, which arise in the packet of raster grids, initiate the wave dynamics, generating non-linear superpositions of the object. The energy starts to move from corner zones of increased polarization to more neutral zones along any and all vectors. According to the laws of physics, the moving potential starts to rotate clockwise relative to the direction of movement. Instantaneous conversion of 4th derivative into matter is a result of initial heterogeneity of its packet structure.

The most polar corner envelopes, lost contact with the base (2 QFC), form a non-linear system in which there are spiral tracks of rotating clockwise wave fronts of different dimensions. In turn, the control hypersphere (2-4 QFC) as a self-affine object, is able to stabilize the process, forming one phase center common to all component grids of 1 PFC, and to form a regular structure with reference to it, which determines position of phase centers of plurality of system entities composing the community.

Since each phase center of any crystalline domain of matter is derived projection of the corresponding hyperquantum prototype being a prototype of the structural stabilization of the planetary complex, it can be argued that these points realize the phenomenon of spontaneous redistribution of active



potential, regardless of its parameters over a range of involved frequencies of the proper background radiation of the object. The ordered phase framework initiates a system of frequency wave levels (dimensions); quantum phase centers that have arisen during the matter synthesis exist as a set of subsystems, which consistency decreases while moving away from the common maximum neutral center of the system. Since formation of centrifugal forces results to lateral acceleration and precession of a rotating object, and therefore, an expanding helical spiral of its motion trajectory, branches of helix spiral vortices should expand up to a certain limit.

The phenomenon of rotation of all objects having an electromagnetic nature in the same direction with respect to their own movement direction creates the following "paradox". When the angle between deployment vectors is 180 degrees (i.e. mutually opposite directions), these objects will rotate in diametrically opposite directions relative to the center of the system (clockwise and counter-clockwise), creating a high compensation of the system dynamic loads.

If vectors that are not on the same diameter, are characterized by differently oriented wave interactions with multiple interference and all kinds of non-linear processes, the objects in oppositely directed vectors are characterized by multidirectional rotation (spin) and are capable to compensatory neutralized (annihilated) at counter interaction, passing to a stationary, quantum form. They can interact only after passing through a kind of "circular" orbit. The concept of "antimatter" is apparently connected with this phenomenon. However, in fact, these objects simply have opposite spin, which enables them to mutually compensate as a result of contact, creating a three-dimensional lattice, and "disappear", transforming itself into a more coherent, quantum form.

Thus, we can mention the following processes: inertial expansion over a plurality of radial vectors created by a spherical directional pattern of the Universe megaspace; inertial radial expansion of a plurality of vectors; rotation of all objects in one direction, appearance of spiral cones and process balancing for any diameter by mutually opposite rotation of the respective objects.

The opposite directionality in the area of synthesis of matter (1 PFC) with respect to 1 barrier membrane (2 QFC) of the system of chain-planar spiral-helix packets (wave arrays) being deployed, is primarily associated with intrinsic compensatory dependence of any dynamically expressed wave phenomena. As mentioned above, rotation of all wave packets occurs unidirectionally with reference to a center, but within a spherical space conversion system this automatically results to the diametrically opposite, the most adequate counter function, totally balancing the process with respect to the central phase center and retaining possible structural neutrality.

Increment of frequency wave transitions will be different after occurrence of periodicity as



derivative of dynamically expressed changes and loss of integrated coherence. Geophysical control field of 7 planetary fractal converters is captured in the area of 1 PFC on the surface of the barrier membrane 1 (2 QFC), correlating "sets" of wave fronts, where deployment vectors increase occurs according to a different principle. The lower limit of number of deployment vectors, wherein the concept of time cyclicity occurs is equal to 26 (the minimum number of fractalization vectors that convert electromagnetic radiation into space-time highly coherent state, passing in quantum form - 2 QFC). Further, the number of envelopes as a result of fractal deployment of hyperquantum prototypes 3-8 QFC and $9-\infty$ HFC increases to infinity.

Automatic occurrence of considerably observable mismatches (occurrence of frequency wave irrationality) in zone of 1 PFC results to various structural compactions and, in the contrary, voids that will subsequently become concentration areas of dynamically expressed processes of various types (electromagnetic anomalies). Loss of even one of three fundamental for this structure interperpendicular matching factors (orthogonality), as an expression of spatial correlation of the base and derivative form, leads to "disintegration" of deployable space structure of 1 PFC into separate spiral-helix chain-planar derived modifications. It should be added that packet of flat raster grids of 1 PFC carries patterns of all 14 types of Bravais lattices, defining a principle of space-time amplitude-frequency correlation of phase framework of all possible structural compositions synthesized directly in the spiral-helix interactions covered by 8-1 PFC. Geophysical medium carries the entire range of multi-level electromagnetic radiations, that is inherently, from the perspective of dynamic interactions of any type, the most coherent "foundation" of all possible counter-exchange processes, synthesizing diversity of the planetary physical nature. Thus, the space of the Universe is the most complex, spatially deployed structural quantum set of hyperspace of $2-\infty$ Hyperquantum fractal converters, correlating, redistributing, and stabilizing any and all range of electromagnetic radiations of the megaspace and its material reference cavities - star systems.

As you know, some of topological equivalents of sphere are cube and octahedron. In the plane packet of 1 PFC, each segment composing its structure contains an octahedron, inside which there is a cube, forming a highly complex, multi-level formation, which 1st derivative gives a cuboctahedron. Priority of structures is determined by only the point at which observer (operator) positions itself. The common design of 1 PFC is a packet of plane diffraction lattices forming a multi-level system of phase centers of the area of maximum concentration of the active potential, seeking to penetrate through the barrier membrane 1 in the area of hyperspace of 2-8 QFC.

To carry out the coherent transformation of a set of wave functions, at first it is necessary to correlate amplitudes, i.e. to reduce them to optimum value with respect to each radiation range.



Thus, initially there is transformation of amplitudes, followed by the process of correlation of polarization vectors of magnetic and electrical components of the wave pulse, a plane-parallel diffraction pattern occurs, representing Cartesian coordinate system, structurally stable from the perspective of a three-dimensional space. We could say that three-dimensionality of our space is not an abstract mathematical model, but the consequence of the fact that electromagnetic wave process has three orthogonal components. This process is followed by ordering within the phase centers (quantum transitions), and then - correction of the interaction pattern tending to sphere. When the total directional pattern of polarization vectors deploys in the form of 26 fractalization vectors of hypersphere of 2 Quantum fractal converter (QFC), any wave pulse, got in the system, starts to transform into a similar highly coherent fractal form. That is why the process of the polarization pattern transformation through formation of absolute adequate counter function is the most difficult, because it automatically holds redistribution and coherent restructuring of each electromagnetic pulse within the self-affine hypersphere of 2 QFC, deploying it into its own hypersphere initiating a reverse reaction towards the periphery, qualitatively ordering topologies of crystalline objects.

This means that resonance in the system of 1 PFC is going on not in just certain directions, but triggered according to the pattern, which has at least 26 directions of counter-interaction through the central phase Zero (quantum Prototype of 2 QFC) with formation of three dynamic correlation levels wave - half-wave - quarter-wave. Each of them, in turn, creates its own derived superpositions and separate phase center, deploying its resonance sphere. The process has a tendency to simultaneity, but the most importantly, it allows to get the fractal reaction of resonance pattern (each with all individual components and all with every single component) in the form of multilevel fractal sphere, and hence the lack of subforms that respond to specific pulse different from the neighboring ones. Although discrete always remains, but the entropy is reduced to an optimum level, characterized by a certain constant, which determines the tiered stability of 2 QFC system. If this constant is reached, the system is running in single phase as a universal wide-range coherent converter. Any pulse is automatically differentiated into elementary subforms and converts a system of composite spheroids of common hypersphere 2 QFC into 3 QFC pattern, and then - into 5 QFC and 7 QFC pattern. In turn, 4 and 8 QFC, as analogs of 2 QFC multiple of 2, appear automatically and have the properties of correlating barrier levels.

Each wave function as a dynamic process is capable to be implemented in accordance with its specific nature only with analogs, correlated with the structure of 1 PFC, which is extremely difficult, because condition $X_n + Y_n + Z_n + \dots + N_n \rightarrow 0$, which determines the coherent stability of any model requires a multi-dimensional synchronized symmetry implying striving of spiral helix fronts to stationary spatial structures, allowing to form crystalline similarity of the hypersphere at the level of 4th derivative.

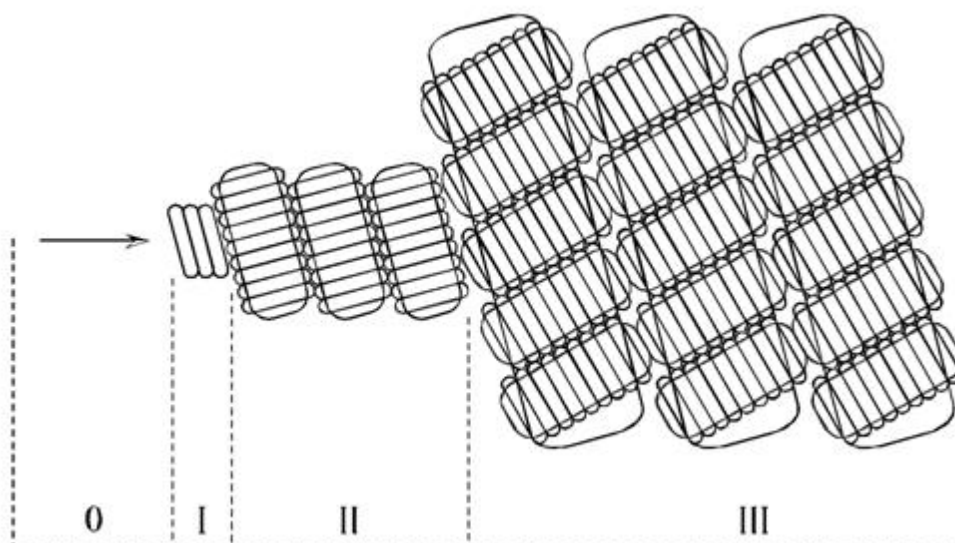


As a result, existence of planar arrays is possible only in the form of a community, which forms along respective 1 PFC fractalization vectors blocks of chain, spiral-helix packets of strictly oriented identical arrays oppositely twisted relative to the central phase point with their own step by step deployment regarding the proper polarization vector. Due to the loss of the inter-turn coefficient of correlation of magnetic and electric components of wave tracks, this chain-spiral-helix object can form only three derived levels of the proper fractalization - "spiral - spiral in spiral - helical spiral in spiral". Further, instead of the fourth level of helix formation (derivative), irregularly wound on itself coil formation is formed, which is a highly clustered object that has lost its principle of own fractal-subordinate organization, and in spite of similarity of the overall shape to sphere, is not a spatially organized system.

Thus, any reactivation (increased polarization) of a chain, spiral-helix packet of planes leads to haphazard entanglement of the program-dependent algorithm and loss of its functionality.

Step-by-step energy increment is possible only in the form of instantaneous quantum transition from one level to another, requiring to generate adequate potential determined by the corresponding constant. The slightest discrepancy in fractalization parameters automatically resulting due to mass already submitted irrational values at the phase of 1st derivative and, therefore, non-linear derived superpositions at the time of the program deployment and counter interaction between blocks of different types of planes causes spontaneous helix formation, leading to collapse of the wave complex to simplest linear chain functions due to a sharp surge in structural inconsistencies, "breaking" planes to elementary wave components capable to form only the spiral-helix structures, deploying with the direction of twist to natural cyclically expressed tendency to compression or expansion (oscillation) of its own derived analogs (superpositions). Thus, any informationally saturated model tends to consistent compression in non-functional cluster module or to "blurring" and disintegration. This specifics of linear-chain spiral-helix fractalization and, as a consequence, impossibility of constructing a straight path along the shortest distance between any two randomly selected points in space, results to "paradoxes" of space-time categories of electromagnetic megaspace of the Universe.

Spiral helical structure of linear-chain momentum is capable to systematic fractalization only up to the third level of its own spiral cloning, namely: 0 - pulse basis (phase) - 1st derivative, a single spiral - 2nd derivative, spiral in spiral - 3rd derivative, helical spiral in spiral.



Three-level spiral

Further systematic helix formation (4th derivative) as a result of loss of factor of interturn correlation of magnetic and electric components is not possible. Since tendency to spontaneous unsystemity of interaction vectors and, therefore, to a conflict arising from the magnetic and electric components and their superpositions of nonlinear nature is clearly expressed, haphazard formation of the cluster type (turbulence) is formed, seeking to dynamically stabilize itself, forming large-scale active anomalies together with its own analogs.

Thus, the functional potential of any type, involved in the form of spiral-helix linear-chain functions, has obvious limitations, both in power and in the area (coverage) of possible realization, which is clearly confirmed by the presence of base constants that define the basis of the existence of any type of environment with electromagnetic nature. It could be added that in terms of efficiency and accuracy of interactions, an attempt to use everywhere this, inherently the least effective interaction algorithm is absurd. This conclusion is supported by a plurality of permanent pathological conditions, which are massively provoked by modern technocivilization among the immediate habitat.

An example of the linear-chain spiral-helix compositions is both any wave function cyclically tending to compress or expand, and well-known three-level spiral of DNA, which after the third level of helix formation (derivative) as a result of loss of its own conformity factor, forms a haphazard glomerate clot (4th derivative), which is a basic protein formation.

So 1 Planetary fractal converter (PFC) is able to form a whole range of modifications, from Supermatter (absolutely stable object) to low-functional hypercluster system and Chaos, where the entropy value is a measure of quality of the object structure synthesis. If the spiral-helix synthesis



algorithm is not controlled from the perspective of structure of 2-4 PFC and is not structured within itself according to the principles of 2-4 QFC, respectively, the fractal deployment of the spiral-helix analog system generates only random cluster formations with multiple haphazard dynamics caused by constantly ongoing disintegration of such community, spontaneously tending to self-destruction. In turn, introduction of principles of optimum packing and synchronization of a set of identical subjects into a single whole (3-4 PFC) allows to obtain a structurally stabilized hyperobject. In this case, stability of the object, which has an electromagnetic nature, will entirely depend on quality of the cluster structure, defined by the criterion of 2-3-4 PFC.

Thus, the set of planetary physical fields, deployed as analogs 2-4 QFC, determines existence of appropriate structural designs of matter and synthesis algorithms. It is easy to note a step-by-step sequence defining the appropriate scale of correlation and conversion of one category of the structural quality to another, which is associated with natural processes of quantum transitions (1-8 PFC) and is available for conscious correction by introduction of adequate structuring program from the perspective of their quantum prototypes (2-8 QFC), which involvement eliminates formation of conflicts and spontaneous manifestations of intrasystem disintegration, thereby stabilizing information-exchange components the most important for any electromagnetic space existence, consistently advancing to the original universal quantum hyperprototype (2-8 QFC), strictly fixing fractal conversion stages as unconditionally stable categories of "nested" hyperspheric levels.

Each successive megaspace level involves a much higher quality and depth of coordination, as number of structural relationships that are simultaneously fixed at a quantum leap, increases many times. Accumulation potential process occurs at the preceding "external" level, which, according to its structural feature cannot accumulate and retain potential above a certain limit. On the border of fractal converters, in the area of the megaspace barrier membranes, a process of counter interaction in the form of energy absorption and discharge runs. Thus, the more structurally saturated level is able to absorb only potential compatible from the perspective of the previous conversion level. Thus, there is a real opportunity to systematically fix the maximum neutral form. However, at this point a counter function arises since the structural design of any converter is not able to simultaneously accumulate potential required for the system-wide quantum transition. This results to an effect of harmonic oscillations.

Instantaneous deployment of the universal hyperprototype forms a self-affine Universe configured as a "nested" fractal structure of multilevel electromagnetic megaspace, where, as a result of basic foundation deployment due to the specific characteristic, there is an infinite variety of forms and properties of the set of partial derived projections and their superpositions gradually losing their original

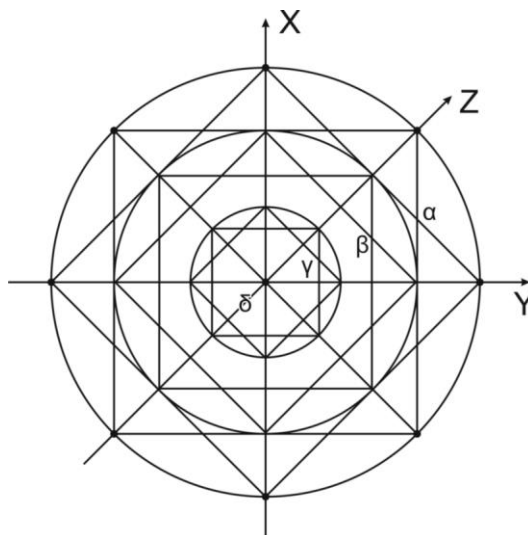


structural quality (stability) and subsequently transforming into more primitive formulations of mutually containing objects transforming into each other that exist only in the form of a cluster amount of analogs.

Separate functional development of any segment of the step-by-step scale of the spatial conversion process leads to occurrence of physical objects that have, again, the electromagnetic nature. The less a prototype corresponds to a universal hyper-dimensional basis, the harder its ability to create high-quality interconnections structure is expressed, which determines ultimately the highest possible level of development of a biological organism and its consciousness as a non-linear superposition corresponding to shape and possibilities of existence of this species in a specific environment, which is a process of successive conversion of hyperprototype (2-8 QFC) in the form of a universal base to material derivatives. The number of stages in the overall deployment pattern is strictly caused with hyperprototype projection, as a result of which, any of its points carries the derived analogue of the deployment algorithm of the individual planetary development basic pattern.

For example, the basic model suitable for an adequate analysis of planar categories contains two mutually perpendicular axes, which have a common center (phase) and form a simple flat basic perception segment - a raster grid, differentiating together with analogs a signal in a particular wavelength range, which stability is ensured by a gradation depth of this process.

Obviously, the presence of three derivatives breaks the fractal converter pattern (see the figure below) into 3 structural zones: α , β , γ , and the center δ is the so-called subcore - quantum prototype - and is not considered in the structural analysis, although its presence is certainly meant as a universal basis (hyperprototype) of the analog fractal synthesis of an electromagnetic planetary converter. The grading described may be applied to any converter.





Prototype

Thus, mega space of the Universe is formed "in the image and likeness" of its hyperprototype. Its most important feature is the presence of semantic theses of successful implementation fixed at the level of quantum and hyperquantum patterns of high-quality program algorithms, which activation required creation of the structurally built analog initiating the counter resonance. The quality of copy of such a program prototype will tend to 100%, and resulting information material can form the basis for construction of the next hyperprototype having more higher-quality proper implementation stability than the previous one, in spite of expressed expansion of variety of proper manifestations.

Inability to adequately implement the above-mentioned basic categories, fixed in the quantum hyperprototype of any system as a program-oriented potential, capable to functional deployment and synthesis of appropriately systematized megaspace provokes haphazard dynamics and chaos of avalanche disintegration of wave subforms and material objects, down to elementary particles as hopeless options of stabilization of global hyper- and megaspaces in an infinite Universe.