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(Translation from Russian)*

VTORTEX GALAXY AS STRUCTURER OF STELLAR SYSTEMS AND TIME (CALENDARS) AND CAUSE OF THE EARTH CLIMATE CHANGE

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<i>A wise man</i>	→	Knowledge of nature, experience, intuition
<i>swims across the river</i>	→	Man's life goal
<i>at the river bend,</i>	→	Outset of life plan
<i>and all the rest do it anywhere;</i>	→	99, 9...% of mankind
<i>at the river bend the river itself carries</i>	→	Life plan implementation
<i>the man to the opposite bank</i>	→	Man's life goal is reached!
Tao Te Ching		The author

Introduction

The text was written “at a breath”, and as such may contain errors though not fundamental, easily correctible and described with respective comments in further works of the author.

VTortexTM (from words **Vortex** and **Torus**) is a self-supported toroidal eversible/enveloping or explosive/implosive structure being a source of energy and information at the same time.

1. The majority of “astronomy programs” and other related information sources provide quite vague descriptions of the location and movement of the Sun System in the Milky Way “hose”. Therefore, the author made an attempt to describe how these processes go on in reality in terms of tore technologies and elastic mechanics.

2. This paper does not include references to works that study various reasons for the global climate change, let alone the climate warming (!) since all of them ignore **the key dominating factor – the specifics and principles of toroidal motion** based on which the VTortex Galaxy, including our Galaxy, is activated, exists by self-supporting, performs unsupported (self-supported) movement and disintegrates into parts exceeding its typical dimensions.

Far-fetched threats such as high CO₂ concentration in the atmosphere, the aerosol factor or El Nino, etc. are not dominating but rather short-lived, “supporting”, “pictorial” and “killing” factors that sooner influence people’s minds rather than effect the global warming and as such can fool 2 or 3 human generations.

The system-level weather monitoring has been conducted since the late 19-th century, and the results of the analysis covering these “warmer” years are immaterial in terms of time and quantitatively do not go beyond the background level. The “community of climate warming lovers” tries to pass the above “background” for information of a super-global value with the purpose of uncontrollable spending of people’s money allegedly on correction of the current Earth climate. A good example of it is the well known Kyoto Treaty.

Meanwhile, the movement of our Galaxy, and hence the Solar System, by way of eversion from the Life Belt into congelation does not require permission of this reputable organization.

Moreover, honest people who accepted the false truth that “global warming is more than 90% likely....” and are eager to help Mankind just waste their money and disgrace their names, take for instance British billionaire Richard Branson who spent \$25 million on the above purpose (www.algore.org, February 9, 2007).

Much more important is the following:

Testing plasma weapons, launching missiles and super-high-altitude jet planes using the “primeval bonfire energy are the main sources of imbalance in the fluid medium of the Earth atmosphere, i.e. the inertia of the fluid medium structurization (recovery) processes (tens of seconds) in the Earth atmosphere is too short in time to patch long through-holes made in the latter by a “thick” plasma beam and flying giant barrels with hydrocarbon fluid burning in them to deliver their pegs to Space.

As a result of such “child games” the above through-holes have a bi-directional effect that causes double environmental damage, namely:

- atmosphere fragments emitted into the near-Earth space are not recovered (do not come back),
- thrown-in fragments of space vacuum mortal for life on the Earth are not controlled at all.

One should keep in mind that the Earth atmosphere was formed throughout millennia.

The so called slow “greenhouse effect” processes, volcanic activity, hydrocarbon exhausts of plants, etc., are only small “pinpricks” as compared to giant and instant plasma and missile hole punchers.

3. Illiterate and near-sighted politicians and investors have been leading Mankind astray from the “correct” way of development: from using **natural physical fields**, primarily the structurization energy, to making use of the “primeval bonfire” energy. However, there has always been an alternative way described in works of such outstanding Scientists, Thinkers and Experimentalists like John Worrell Keely (1827-1898), Nikola Tesla (1856-1943), Thomas Henry Moray, Victor Schauburger (1885-1958), Richard Clem, John R.R. Searl, Alexander Milovich (1869-1947), Bruce de Palma, Nikolay Kozyrev (1908-1983), Ruvim Kozhevnikov (1924-2007) and others. All of them had to acquire practical knowledge individually starting “from scratch”

As a result, ALL has received oil, gas or atomic “pipes” and “modern technologies” to service” these pipes.

Accordingly, “general” implementers of these technologies were found, such as Igor Kurchatov (1903-1960), Sergey Korolev (1907-1966), Julius Robert Oppenheimer (1904-1967), Verner von Braun (1912-1977).

The results of this “outstanding 100-year progress” (as of the beginning of the 21-st century) are “horse-drawn” flights to the “local” space making everyone bored to death and leading to nowhere, the International casino “Mir Station”, or traveling “on foot” to Mars as well as information technologies of Bill Gates fully exhausted in terms of physics after 25 years.

4. All investigations related indirectly to the climate change such as developments in geology demonstrated as the “evidence” of climate warming may be with the same degree of truth taken for the evidence of the climate cooling.

5. And further in the perspective Nobody knows where to go and even the Life Plan does not exist. Why should anybody care about such things when life on the Earth is so pleasant and controllable? Parents are not in the least bothered about future death of their children due to natural freezing or in the atmosphere turned by them into torn rags. And they do not feel blame for non-appearance of future generations. Everyone believes in eternal life on the Earth. Enjoy yourself to the best of your abilities (with or without money)! One cannot imagine anything more meaningless or *animal-like*.

7. All investigations carried out by the author should by no means support creation of R&D programs meant to be another feed-rack (for hundreds of years to come) for crowds of “learned” bureaucrats eager to “assimilate” free tax payers’ money.

8. Any research based on the author’s works or using these works for profit-making purposes must be agreed upon with the author.

9. The author suggests that people who share his views get in touch with him to continue work together in order not to waste time and money on “identification” and use of his (natural) technologies. To do this, they have to live his life through.

There is a popular drug called MYSELF – do not take it!

On “Structurization” and “Structurer” Concepts

A “structure” (*Structura – Lat.*) is a construction, arrangement, order (in “statics”).

From the synergy point of view the term “structure” means “orderliness” both in space and time. Derivatives from the “structure/orderliness”, e.g. “structurization” (structure formation) refer to implementation or dynamics of this process in time.

It seems obvious that the above concept may be attributed to Space and Time as they are, or to Space in Time, that is we may speak of “structurization/orderliness” or “structurer/order-maker of Space and/or Time or/and of Space in Time.

And how about things that are inside these Space and Time, e.g. those that describe such natural comprehensive processes like planet or hail formation involving a multitude of “intellectual”, “preparatory” and “technological” operations including:

- automatic orientation and alignment of two branches/hoses/rolls rotating respective their longitudinal axes that are “bloated” with old stellar systems

following their own complex trajectories. Orientation and alignment automatically occur at the beginning of a radial implosive centripetal sink;

- geometric adaptation of branches/rolls for capturing and processing stellar system elements (the Sun, all planets and their satellites) having different physical characteristics in the deformation origin area of the helical rolling mill. For instance, the Sun radius is 109 times greater than the Earth radius, the Sun volume is 1.3 million times of the Earth volume, and the Sun mass is 330,000 times greater than that of the Earth;
- Pressure shaping of “different-size” stars and planets into “different-size” dodecahedrons and/or their variations made of stellar matter with different physical characteristics.

The pressure shaping of stellar matter consists of two parallel “pressure” processes: pressing and super-cold helical rolling of stellar system elements.

The term “dodecahedron and its variations”:

A polyhedron ($A\{B\}$), where A is the number of faces, B is the number of angles in the polyhedron (B -angle) may be denoted as follows:

- dodecahedron - $12\{5\}$;
- icosahedron - $20\{3\}$;
- beta-tetrakaidcahedron - $4\{6\} + 8\{5\} + 2\{4\}$;
- truncated icosahedron - $20\{6\} + 12\{5\}$, etc.

The author has used the generic term **“Structurization”** to characterize the process in the whole and the term **“Structurer”** to denote an instrument of structurization or type of processing because **irrespective of the type of matter “processing” by, for instance, external (compression) and/or internal (bulging) forces applied from the outside and/or inside, it leads to formation of regular and deformed (extended) along different axes, solid or made of fluid medium dodecahedrons, or their variations, or Shikhirin cells^{4,5,6,7} or their variations, or/and their dense packs, such as**

- crystals,
- foam in open space,
- “foam” in spherical or toroidal shell filled by fluid medium under excess pressure;

- pressed peas or plasticine balls;
- stars and planets;
- hailstones and raindrops,
- elements of vegetation or fauna, etc

All these processes are automatically followed by their “mathematical environment”, namely π , “1”, “4”, “7” numbers; square roots of 2, 3, 5, 7; “golden ratios”, etc.[see 1 for details] constantly adjusting (suddenly, like a phase transfer, “appearing” or “disappearing”) to their shapes modifications.

- [a sphere, spherical π , “1” and “4” colors] \rightarrow [an inscribed or circumscribed (spherical) polyhedron⁷, e.g. dodecahedron and its variations, and a spherical “golden ratio”] \rightarrow [a sphere, spherical π and “4” colors];
- [a sphere, spherical π and ‘4’ colors] \rightarrow [a torus, spherical and toric π and “7” colors] \rightarrow [a polyhedron⁷ inscribed or circumscribed by the torus (toric) polyhedron⁷ and its variations, $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, $\sqrt{7}$, “3”, toric “golden ratio”, torus knots] \rightarrow [a sphere, spherical π and ‘4’ colors] ;
- [Möbius band, Möbius π and “6” colors] \rightarrow [a band, “1” color], etc.

In further deliverables the author will describe the principles of the toric “golden ratio” set.

Mechanisms of the Universe, the Milky Way and the Solar System Functioning

The Universe space is a dense pack of structural spheres shaped as dodecahedrons or their variations in edges of which there are “rivers with streams” with standard river-channel processes and all “charms” of the “river landscape” [see 2 for details].

In meanders of such rivers VTortex galaxies are generated (get structured), exist and die (break the structure).

All stellar matter of any galaxy is actually dislocations residing in edges/hoses (Plato-Shikhirin channels⁷, [1]) of bases of Shikhirin cells⁷ of which any active galaxy is made.

Shikhirin classification of galaxies

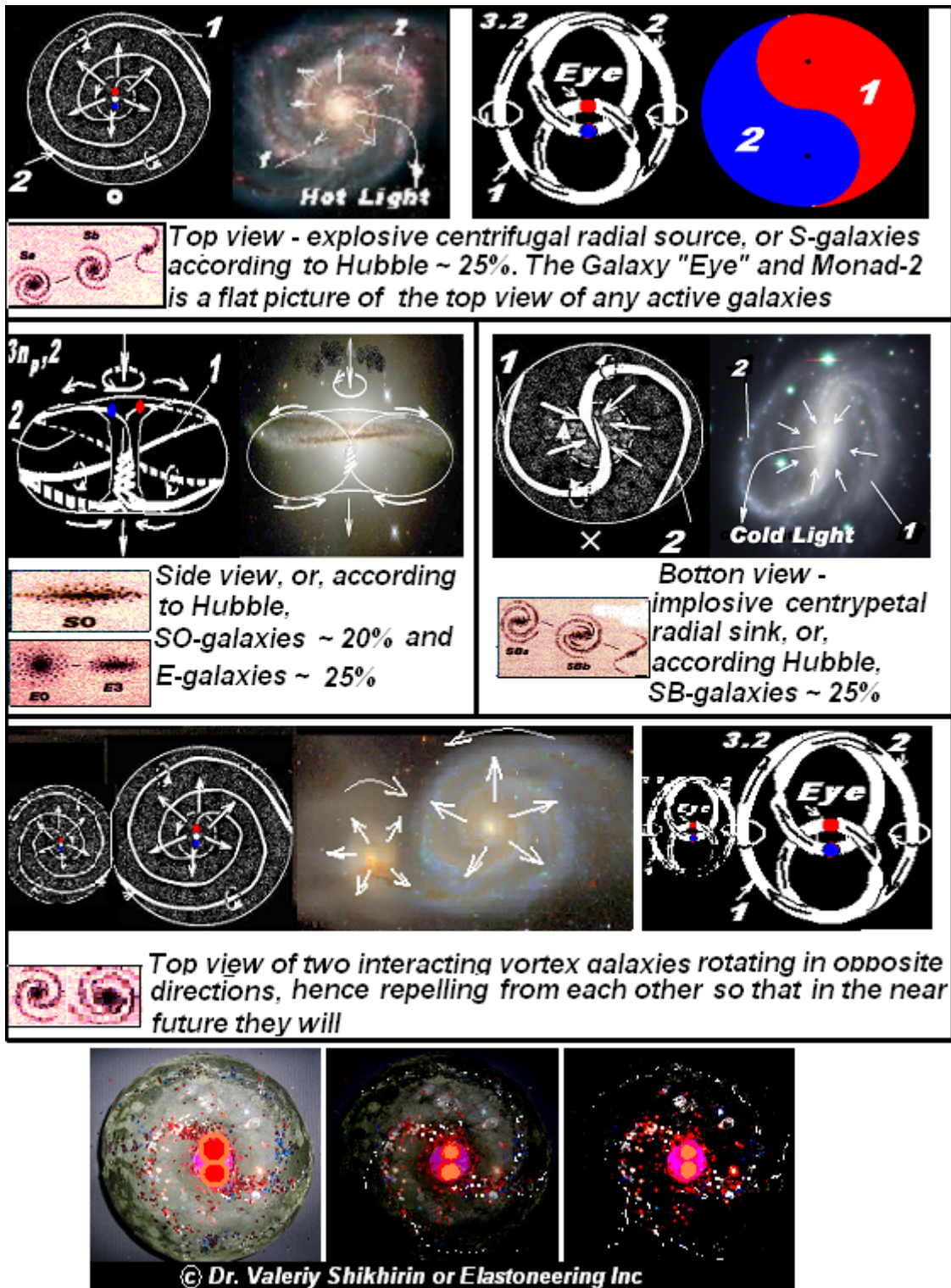


Fig. 1 Shikhirin classification of galaxies. Different perspectives/views (top, side and bottom) of the same galaxy are shown and compared with the so called Hubble's tuning fork

Given below, are pictures from the author's collection that show the top view of an active galaxy model (a closed torus). The model was made by the author of special plastic material, colored with sequins and converted to a "real" (astronomical) object by means of computer graphics. In the central part one can see a double "hurricane eye" of a two-branch/roll galaxy.

Unfortunately, today's optical systems including telescopes are not equipped with sensors capable of "feeling" the volume, weight and internal design (framework, structure) of objects investigated as well the temperature field, the pressure field, the electrical and magnetic fields, the vortex field (gravitation and levitation field), etc.

The functional features of the so-called "Hubble galaxies" practically match functional features of perspectives/ elements of one and the same VTortex galaxy (quoted extracts are taken from standard sources, e.g. [4]:

- "**S** galaxy", or **explosive centrifugal radial source**: *"Many young blue stars, dust, gas, running away from the center, clear-cut coil branches, absence of the bar"*;
- "**SB** galaxy", or **implosive centripetal radial sink - black hole**: *"Gathering galaxy". No dust or gas, all stars are big (the "law of bloating", see below), distinct helical structure, running towards the center, presence of the bar*;
- "**SO** and **E** galaxies, or **side view of the galaxy**: *"Transitional galaxies: from E galaxies to SB and S galaxies, residues of the helical structure, all stars are big and old (see the "law of bloating" below), red and "greater" than S galaxies; no dust, the core is absent, no coils.*

Even the number of "different galaxies" according to Hubble "corresponds" to the number of perspective views of the same galaxy according to Shikhirin.

For instance, the sum of **SO** and **E** Hubble galaxies corresponding to one and the same side view of any active Shikhirin galaxy, viewed from different angles and with different "mist" concentrations, is $\approx 20\% + 25\% = 45\%$ (should be 50%).

At the same time, the quantities of **SB** and **S** "galaxies" - top and bottom views of Shikhirin galaxies - are $\approx 25\%$ each, i.e. they coincide and their sum is 50%. This means that the values of 50% and 45% (should be 50%) identify only one existing type of active galaxies in the Universe.

Given below are general (and very rough) statistical data of the number of galaxies acting in meanders of space streams of the Universe as well as dead galaxies, or

stillborns (non-formed open vortices) and/or old active galaxies burst according to the law of “bloating” and thrown from the space stream channel into a quiet area outside the channel. This area usually accumulates drifts such as space debris; there are also Channel Islands formed of stellar matter, etc., in compliance with “river channel process” laws [2].

So,

- 60% - active single galaxies: these are single closed vortices broken away from a group of interacting closed vortices
- 20% - active interacting galaxies: this is a group of interacting closed vortices including 2, 8 and more vortices split into single vortices;
- 20% - dead galaxies: by Hubble these are irregular Irr-galaxies; “shapeless flocky clouds, formed of gas, dust, old stars” as well as “pieces” of working/fluid medium thrown out of an elastic toroidal shell.

Total: $(60\% + 20\%) + 20\% = 100\%$ or $80\% + 20\%$, i.e. there is one dead galaxy for four active galaxies.

To re-calculate and verify the above information, it will be sufficient to have several college students who could use the results of such work for their degree research or course papers.

Excursion of the author:

Let us look at a VTortex whirlwind (Fig.2) to compare with a VTortex galaxy.

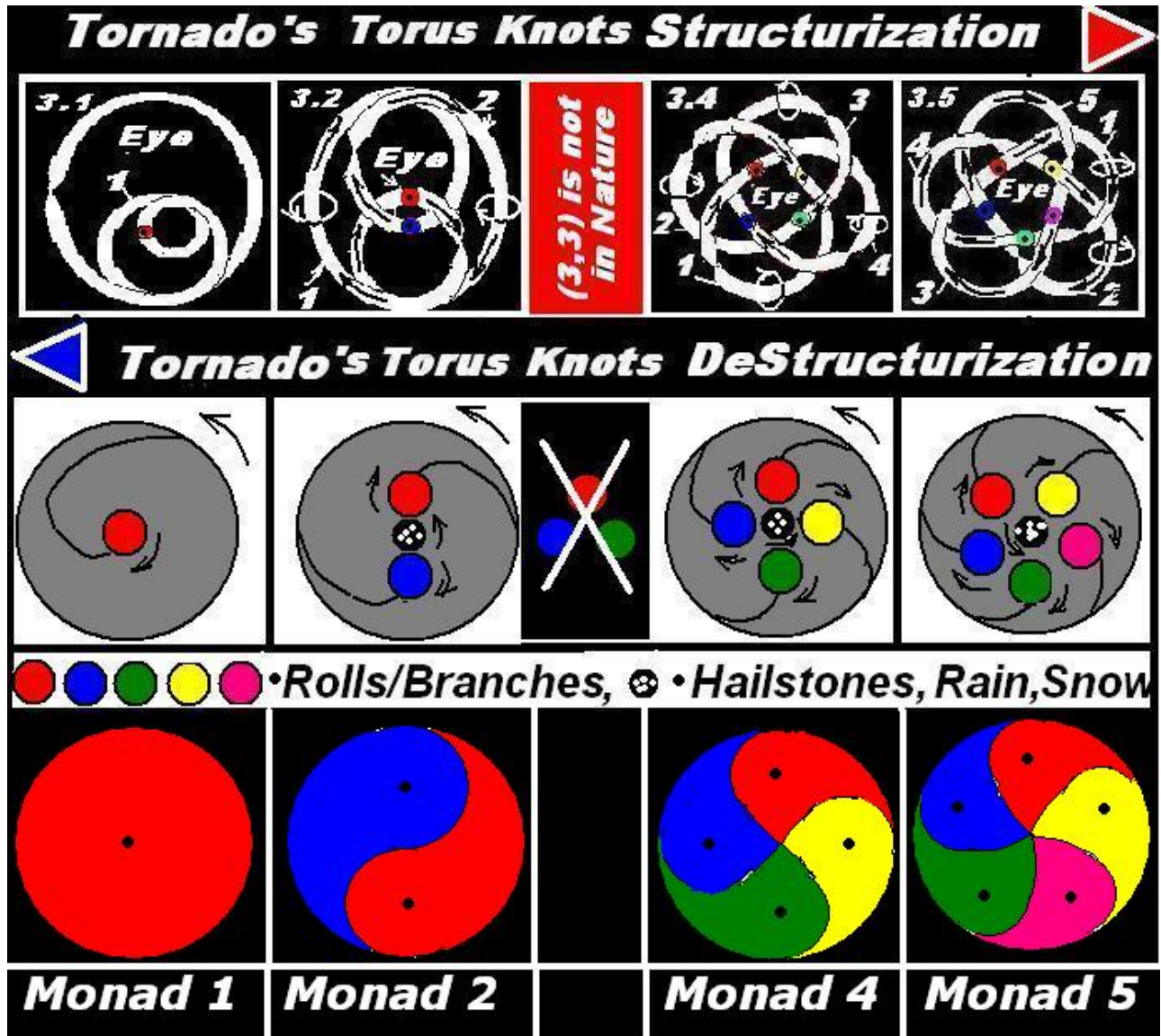


Fig. 2 Top view: the whirlwind is a smart $(3n_p;5)$ -dimensional 5-branch/roll soliton generated from a dense pack of $7n_p5 = 35n_p$ structural spheres/bubbles (Shikhirin cells⁷) with the surface “reinforced” by a $(3n_p;5)$ knot. Real Tornado Structurization/Destructurization (Top view) look at <http://www.enterprisemission.com/hurricane3.htm>

The whirlwind’s eye and the Monad⁵, a flat (artistic) top view of any whirlwind.

Any monad is described by the following general formula: $\text{Monad}^{\{n_q + [(n_q - 1)/2]\}}$.

A Monad is a flat (without a volume) image of the top view of VTortex (bulk figure) or of the so called complex “accretion disk”, where $n_q = 1, 2, 4, 5, 7, 8, 10, \dots$. The well-

known monads are the Monad², or a flat (artistic) image of the top view of any galaxy, and Monad⁵, or a whirlwind/tornado.

For instance, the Monad² is also known as an ancient religious symbol of the World that designates contrary basic elements acting in Nature, where the “In” element is black while its opposite “Yan” element is white.

I believe that originally this symbol was copied (or “imported” by our ancestors) from the external view of the eversible end of a (any) galaxy being an explosive radial centripetal source, or a smart $3n_p$ - dimensional 2-branch toroidal soliton, or, using the current language, the so called “accretion disk” of the **SA** “galaxy” *The end of the excursion.*

So, the $(3n_p, 2)$ torus knot is a member of the $(3n_p; \{n_q + [(n_q - 1)/2]\})$ torus knot family and is a smart multidimensional toroidal soliton (Shikhirin soliton) being a “reinforcing”, “energetic” and “informative” [see 2 for details] knot of any active galaxy that is in turn a smart multidimensional toroidal 2-branch/roll soliton.

The VTortex Galaxy consists of a **dense pack of $7n_p$ structural bubbles, or Shikhirin cells⁷**, while $7n_p$ color zones/cells (7 “colors”) are their bases that have common boundaries and cover the toroidal surface [1-3].

Or, the VTortex Galaxy is a “gas” foam “encapsulated” in a toroidal shell and consisting of $(7 \times 2)n_p = 14n_p$ structural spheres/bubbles (Shikhirin cells⁷) with pressure potentials providing average excess pressure of fluid medium inside a torus-like shell.

In the next deliverable the author will describe why the so called Pascal’s Law of “equal pressure value inside liquid” does not work in Nature (inside fluid medium, the author’s comm.).

About 14 Shikhirin cells⁷ are located at the VTortex periphery, and their boundary layer, a diffepotential pressure field surface consisting of ~ 14 zones/cells, is visually observed at the eversible and enveloping ends of the galaxy (Fig. 1).

The remaining 99,9 ... % - $(14n_p - 14) = 14(n_p - 1)$ of Shikhirin cells⁷ amounting to hundreds, thousands, dozens of thousands minus 14 are concentrated near a comparatively small central part/bridge of the VTortex galaxy, i.e. between the mouths of the centripetal (implosive) and centrifugal (explosive) radial source

(predictor funnel⁺) and sink (corrector funnel⁻), respectively, where 99,9... % $\sim (3n_p - 4,5)$ of turns are concentrated.

This “bar” is a source of deformation – an area of super-cold helical rolling of stars and planets [5].

To put it otherwise, the total number of the Galaxy turns is $(3_p n_p + 2)$ of which $\sim 4,5$ $(2,5 + 2)$ are distributed at the periphery to be visually seen as 2 coils at the eversible explosive ($\sim 2,5$) and enveloping implosive (~ 2) ends while $\sim (3n_p - 2,5)$ turns amounting to hundreds, thousands, dozens of thousands, etc. are concentrated/gathered in its central part near the mouth, or the implosive centripetal radial sink (“predictor funnel⁺”).

For comparison: the total number of tornado turns is $(3_p n_p + 5)$ of which $\sim 7,5$ $(2,5 + 5)$ are distributed at the periphery: at the eversible explosive ($\sim 2,5$) and at the enveloping implosive (~ 5) edges, while $(3n_p)$ turns amounting to hundreds, thousands, etc. are concentrated/gathered, like for any active galaxy, in its central part towards the mouth of the centripetal radial sink (“predictor funnel⁺”).

When the galaxy is viewed from above the turns shaped as a coil move from the central part towards the periphery producing a radial centripetal sink (implosion) and the galaxy seems to be gathering/shrinking in its volume.

The side view shows that in the central part of the VTortex galaxy the coil moves in the bottom-up direction similar to turns of a right-hand threaded screw that run upwards as the screw rotates in the CCW direction, while at the periphery the coil moves in the top-down direction similar to right-hand threaded screw turns running downwards during the CCW rotation of the screw.

In terms of torus-based definition, any active galaxy is a thin elastic/soft toroidal shell (a closed torus) filled with fluid medium under excess pressure. The galaxy moves in a gas medium.

A fluid medium (“Halo/lens” or “dark/hidden mass”) is a compressed mixture of hydrogen, helium, etc., structured by Shikhirin cells⁷ whose edges are made of surface-active substances represented by protective elastic walls/films.

The galaxy shell “substance” is a compressed layer of mixed hydrogen and helium as well as stellar matter adsorbed in this layer and located in edges and vertexes of Shikhirin cells⁷ bases.

The structure of the VTortex central part is a “**Vortex Braid**” [2] comprised of $\{n_q + [(n_q - 1)/2]\}$ edges of honeycomb cells, i.e. bases of Shikhirin cells⁷, linked, extended and rotating in one direction, respective their longitudinal axes. Moreover, because of the VTortex shell thrust the Vortex Braid is more tightened than the “free” flowing stream braid (a river stream).

In the central part of VTortex galaxies and whirlwinds the density of resilient and dense threads in the Vortex Braid is so high that such threads/rolls are capable of deforming solid bodies to shape them into planets and hailstones by way of super-cold helical rolling.

Milky Way

All torus “cut patterns” or “layouts” show the line of the $(3n_p, \{n_q + [(n_q - 1)/2]\})$ knot, the main feature of which are its *links* (Torus Links) located in the central part; they are not seen on the layout but visible in the image of the $(3n_p, 2)$ torus knot (Fig. 1, top view). The number of links is $\{n_q + [(n_q - 1)/2]\} - 1$.

The physical purpose of these links (Fig. 3) is to:

- prevent VTortex conversion from the closed torus to the open torus , hence its further disintegration. It is like a smoker’s ring the inner and the outer diameter of which increase in time leading to decay of the smoke torus.
- Act as kinematically inseparable rolls of super-cold helical rolling of stars, planets or hail-stones.

The length-to-diameter ratio for a “closed” galaxy torus (small comet, ball lightning) tends to $1/2$, and for a “closed” whirlwind torus this value amounts to dozens or hundreds.

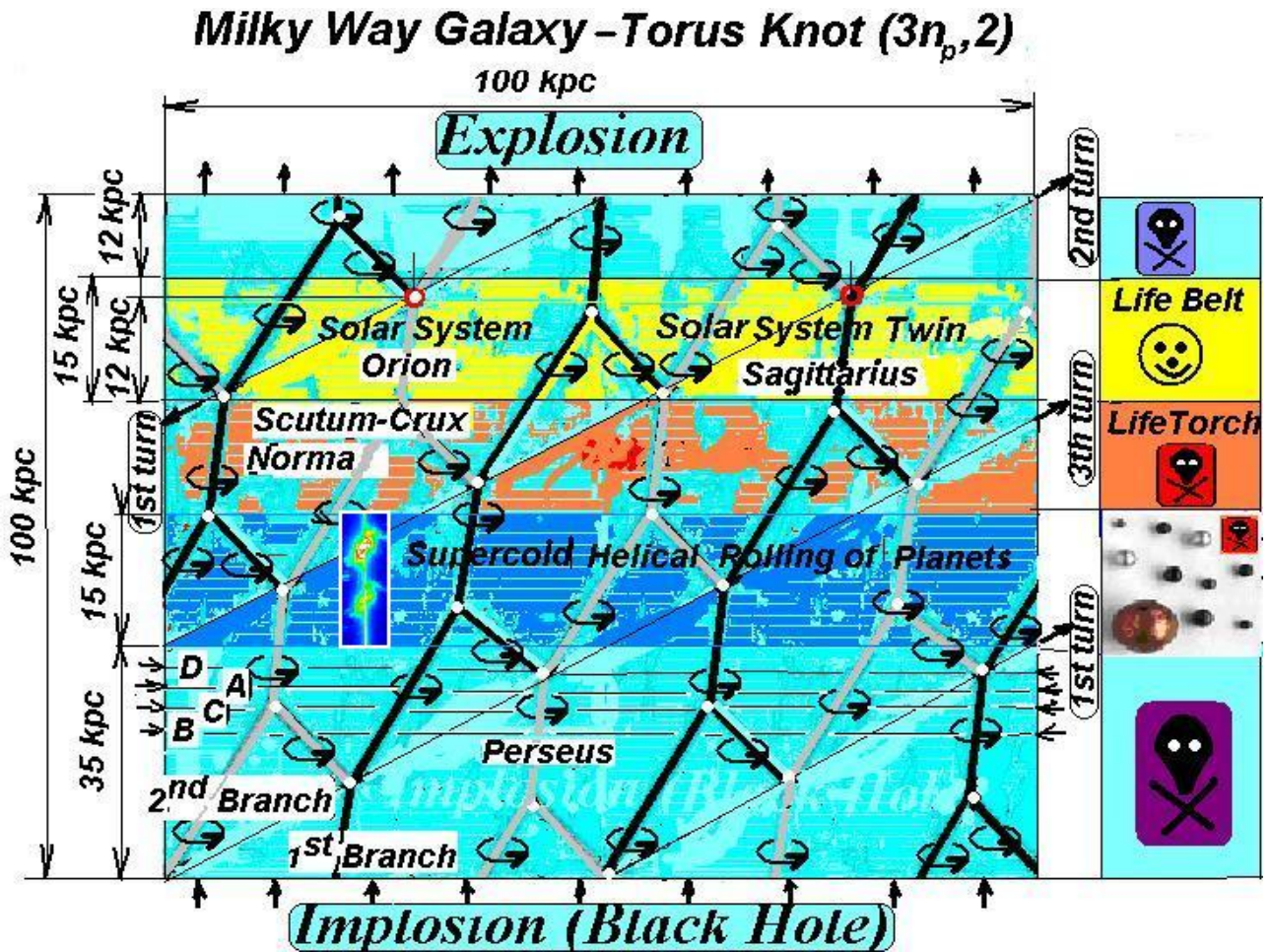


Fig. 3. The layout, or the cut pattern, of our Galaxy and the actual location of the Solar System therein. For easier visualization the galaxy is shown on the (3.2) torus knot. To the right of the super-cold helical rolling zone there is a picture of the Solar System in bulk).

As seen from multiple sources, our Galaxy consists of the “Main Arm”, the “Internal Arm”, the “Interim Arm”, Sagittarius Arm, Perseus Arm, Scutum-Crux Arm and Orion Arm that houses our Solar System, etc.

As a matter of fact:

- all Arms are edges (Plato-Shikhirin channels₃⁷) of stretched honeycomb cells/zones, or bases of Shikhirin cells⁷, where the latter are dense packs [2],
 - faces of honeycomb cells are films, while their edges are dense elastic threads,
 - honeycomb cell edges located by pairs one opposite the other on the Galaxy map (three pairs) have an equal length but one pair differs in length from another pair.
- The angle between the $(3n_p, 2)$ torus knot guideline and the longest edge of a honeycomb cell is the smallest one, therefore the least power is spent on its formation and the edge seems “thick” while the other edges seem “smeared”,

- the main part of stellar matter is located in vertexes of 3 paired honeycomb cells, both in one of the 2 branches and in two coupled branches,
- our Solar System resides in the 1-st branch, namely in the vertex area of 3 paired honeycomb cells
- in the farthest opposite end from our Solar System, i.e. in the 2-nd branch, there is a Solar System Twin with the same conditions of generation, existence and destruction (Fig. 4).

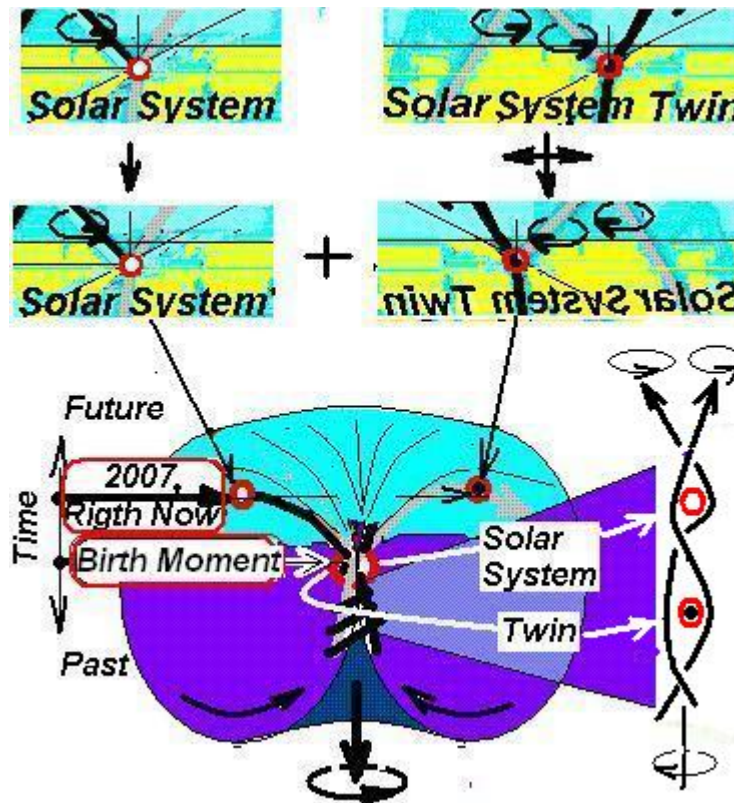


Fig. 4. Generation of the Solar System and its twin.

Real generation of stellar systems look at

<http://hubblesite.org/newscenter/archive/releases/1997/18>

- both branches are identical, located at 180° against each other, coiled rightwards (Galaxy⁺) or leftwards (Galaxy⁻) and perform everting/enveloping movement together with the “material” of the VTortex virtual shell,
- the “body net” formed respective the two branches/coils is a pair of two parallel-coupled (through a turn) and converting to each other honeycomb structures ($3_p n_p, I$) «+» ($3_p n_p, I$) or ($7 n_p$) «+» ($7 n_p$). Their quantity is $7 n_p 2 = 14 n_p$, and the edges are real gaseous elastic reinforcement threads.

Fig. 5 depicts generation of Perseus Arm, Orion Arm, etc., or edges of Shikhirin cells⁷ bases, with reference to the Galaxy map whose fragment (Fig.4) is shown

upside down in the top left-hand corner. The axes of “suns”, and hence “solar systems” having a “hot” or a “cold” sun, are helical lines equidistant to the surfaces of hoses, i.e. honeycomb cell edges.

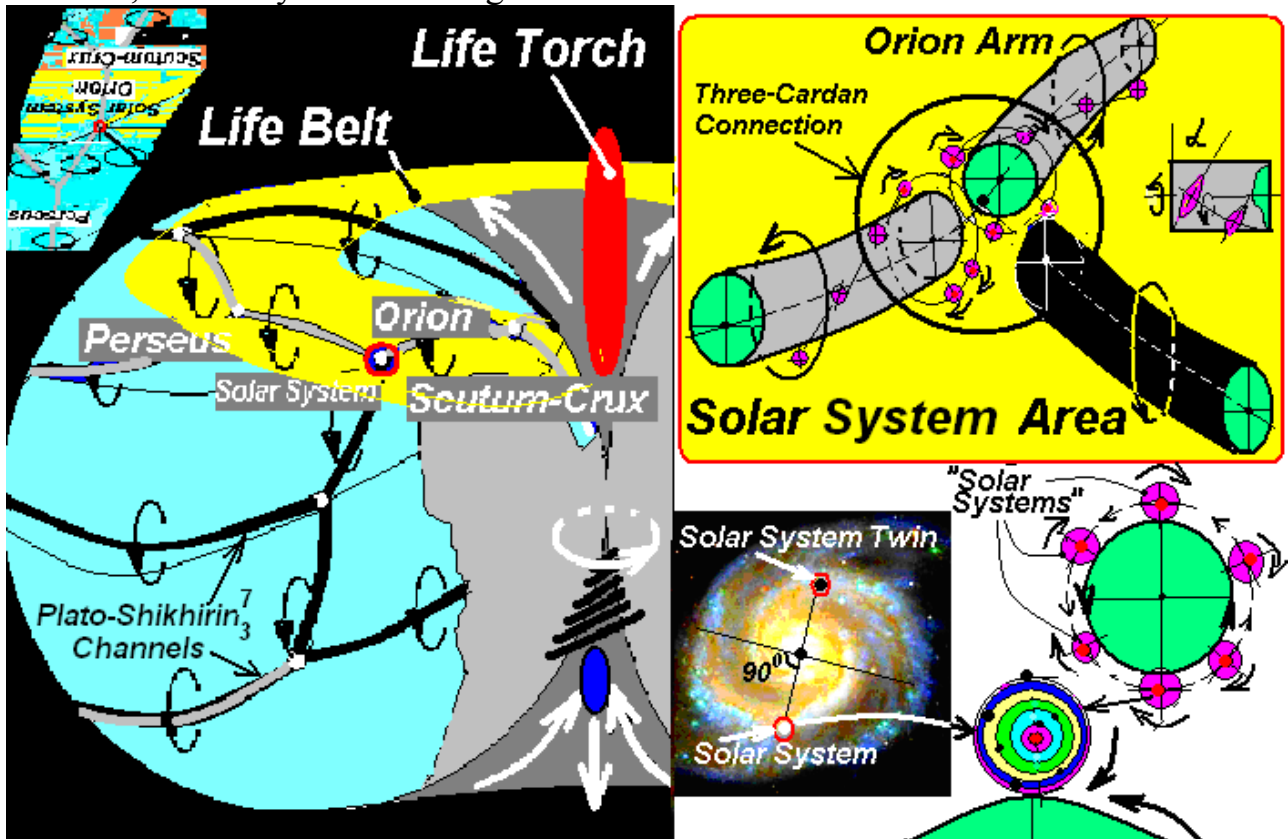


Fig. 5 The Galaxy Torus™ which may be the Milky Way Torus™ or any other active *Galaxy Torus™*, by analogy with the *Earth or Moon globes*.

The disks of “solar systems” perform a rolling operation on the surface of the hose rotating respective its longitudinal axis under an acute angle to its cross-section.

Moreover, all edges-threads simultaneously rotate in one direction round their longitudinal axes without disrupting the integrity of the honeycomb cells.

That is, the reinforcing body net, or a closed 2-sided (mesh) surface, is a set of $21n_p$ interconnected pivoted small cardan mechanisms³ (Figs. 4 and 5) each of which enables rotation of three flexible elastic shafts/edges at variable toroidal angles, each being 180° or less. The sum of the angles on the toroidal non-flat surface is greater than 360° making a toroidal cardan net. The sum of 6 toroidal internal angles of a honeycomb cell is over 720° .

The technology of shaping/producing stellar systems

In the central VTortex part the linking spot of shafts/edges acts as a zone/source of deformation. Located at variable toroidal angles towards each other, the rolls/edges function as shaping rolls of a super-cold helical rolling mill [5] to shape planets or hail-stones (in case of tornado) into e.g. dodecahedrons (Fig.6) or super-snowflakes, respectively.

The Central Body – a preform – for producing new/young stars and planets by way of super-cold helical rolling (hail-stones and “rain-drops” in case of tornado) is old stellar matter sucked into by the implosive end of the Galaxy.

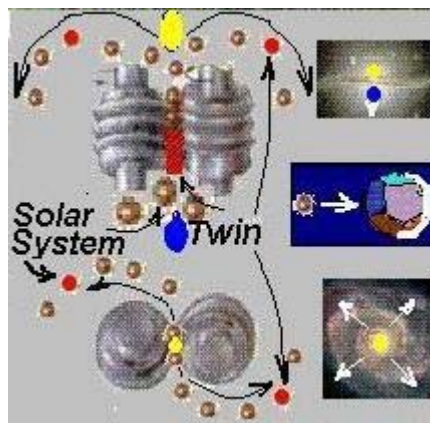


Fig.6. Shows the process of stellar systems rolling and distribution in 2 branches of the Galaxy. Dust dodecahedrons formation shows from [6] <http://www.cymaticsource.com/cymaticsbook.html>. Iapetus (a satellite of Saturn) shaped as a dodecahedron [7]. http://ciclops.org/view_media/2770/Seeing_in_the_Dark .

A dodecahedron and its variations, for instance, icosahedron-dodecahedron are formed by pressure shaping methods, i.e. changing the shape of a preform by applying external and/or internal forces such as impact, external (compression) and internal (bloating in a closed container) pressure, etc. In terms of technology, it is rolling; drawing, free forging, pressure molding, punching and alike.

The pressure shaping of old stellar matter includes two parallel pressing processes: pressing as it is and super-cold helical rolling of elements of stellar systems.

Pressing

There are known experiments and natural technologies for shaping dodecahedrons from various materials and preforms; for instance, multiple experiments with “pressing” fresh peas, plasticine bolls and other deformation compliant materials in a

container resulted in formation of a dense pack consisting of dodecahedrons or their variations.

Helical Rolling

Microworld: a close look at the picture (Fig. 7, left) shows “peas” rolled by the VTortex central part and shaped as dodecahedrons; VTortex shaping is performed by applying sound to the fluid medium (paste).

Megaworld: formation of stars and planets by the central part of the VTortex galaxy (Fig. 7, right) is similar to the above-described process, for instance, Iapetus, a satellite of Saturn, has also a distinct dodecahedron shape.

It is clearly seen that all the above are $3n_p$ -dimensional 2-branch toroidal solitons ($3n_p, 2$ torus knot); the only thing is that in the galaxy different-size stars and planets are shaped under pressure into different-size dodecahedrons and/or their variations made of stellar matter with different physical characteristics.

For comparison, helical rolling with a different number of rolls, e.g. five rolls in a tornado, generates more complicated complex polyhedrons such as an ice super-snowflake. Note that a tornado is a smart $3n_p$ – dimensional 5-branch toroidal soliton ($3n_p, 5$ torus knot).

Formation of stars and planets involves identical quantities, i.e. three mutually linked edge pairs of the 1-st and 2-nd branch/roll. A pair consists of interlinked strained edges located opposite each other. The formation process occurs in the central node that links 3 pairs. The cross-section of such a construction with a planet or star captured between the edges is a regular hexagon.

Of the “edge triple” only edges of one branch, i.e. two rolls are involved in formation of planets or stars.

The elements of stellar systems (solar systems) are produced in sequence one by one, and then distributed between two branches/hoses in a series-parallel manner to form the galaxy “disk”.

If the physical characteristics of any branch (weight, volume, distance between planets and satellites, ballistic data, etc.) exceed those of the other branch, this may affect the galaxy centering. In such cases the galaxy is automatically balanced by redistribution of planets, asteroid belts or their elements, or even stars between the 1-st and the 2-nd branches.

That is, there may arise such “strange” combinations like:

- appearance of Earth group planets at the end of the Jupiter group planets, for instance Pluto and its satellite Charon located after Neptune finish the Solar System;
- two suns in a stellar system;
- actual absence of the sun as the “planet collector”;
- rotation of some planets and satellites in the opposite direction unlike the majority of other planets, etc.

In the author’s opinion, the process of balancing and centering any torus galaxy as a natural astatic self-stabilizing platform corresponds to the features of the “devil’s square” working only on the torus surface [3].

More detailed information on the “devil’s square” features of VTortex galaxies including active ones will be provided in further deliverables of the author.

Процесс производства звездных систем любой действующей галактикой является абсолютно точным по последовательности их формирования и характеризуется следующим:

The process of producing stellar systems by any active galaxy always follows a strict sequence of their formation and is characterized by the following:

- the number of stellar systems and their composition (quantities of stars, planets, their satellites and asteroid belts) **are unchangeable**. In other words, the number of entrants is the same as the number of outgoers throughout a period from the birth moment (young stellar systems), i.e. exit from the deformation zone of the helical rolling mill, through movement along the galaxy periphery till entering the deformation zone (old stellar systems), respectively;

- physical characteristics of stellar systems (weight, volume, trajectory, timing parameters, etc.) increase non-linearly, according to the “bloating” law, from exiting the rolling mill till entering it;
- the physical and chemical composition of stellar systems basically remains the same in the period between exiting the deformation zone and entering it except for stellar systems bloating processes when stellar systems accumulate outside matter rather than grow from inside;
- bloated old stellar systems enter the deformation zone in a parallel-series manner from both branches one after another, therefore the planet matter of the Earth and the Jupiter groups does not intermix;
- in the author’s opinion, a stellar system may have 1 to 5 cycles where a cycle covers a full circular rotation of a stellar system as it exits from the rolling mill, moves along the torus periphery, enters the rolling mill and is rolled in the mill;

The value “1-5 cycles” means that at the end of this period the VTortex galaxy, following the law of bloating, will exceed its typical natural parameters and will:

- split into two young VTortex interactive galaxies; and
- прекратит свое существование, выпустив из разгеметизированной оболочки текучую среду в космическое пространство (мертвые галактики и туманности) cease its existence by releasing the fluid medium from the unsealed shell into space (dead galaxies and nebulae appearing).

In other words, if a stellar system has not made a full circular rotation, or a closed vortex, namely; the central part of the torus → its periphery → the central part, then such a VTortex galaxy is still “a virgin”. This is a “unisexual” reproduction process.

The VTortex galaxy “mother”, “grandmother”, “great-grandmother”, ..., chain corresponds to the following scenario: young stellar systems born from old stellar systems rolled by the rolling mill and again newest stellar systems born from old-new stellar systems, etc.

The process of a virgin VTortex galaxy generation occurs as follows:

- scattered stellar systems thrown by excess pressure out of the depressurized torus-like shell of the VTortex galaxy (death of the galaxy) are captured like flinders by a space river streaming nearby or get into quiet zones/pools/junkyards housing dead galaxies and nebulae;

- when captured by the stream, elements of old stellar systems get into an area controlled by the river-channel process producing meanders, i.e. into the vortex generation zone;
- in the process of closed vortex activation/generation, i.e. formation of a VTortex galaxy, elements of old stellar systems fall into its implosive funnel – the implosive radial centripetal sink, and then to the deformation zone of the super-cold helical rolling mill formed in the galaxy central part.

Magnot Line

The interaction of 2 branches/rolls is proved by the “Magnot line” clearly seen at the <http://photojournal.jpl.nasa.gov/catalog/PIA06166> [8] and updated by author (Fig.7).

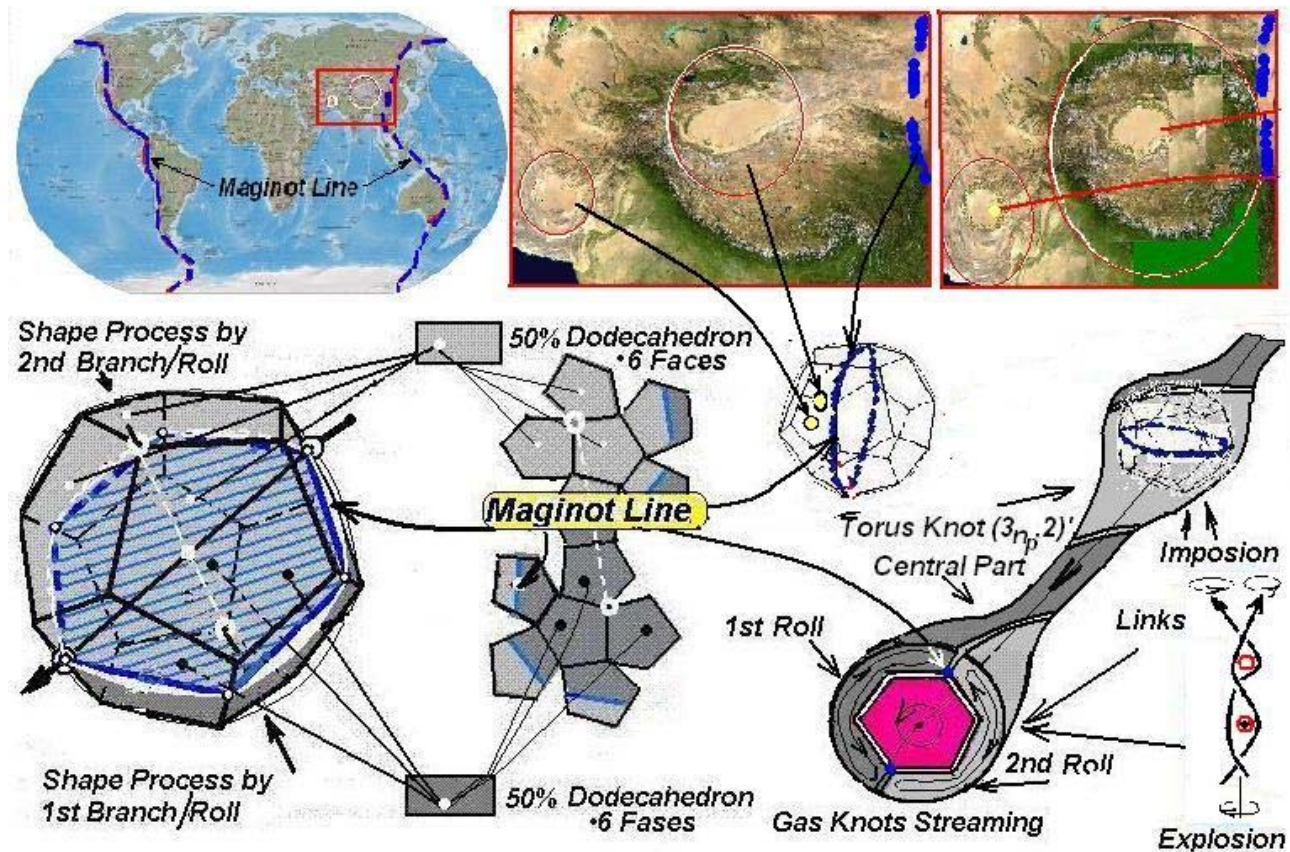


Fig. 7. Formation of dodecahedron planets and stars by the helical rolling method with two branches/rolls and parallel pressure shaping (http://ciclops.org/view_media/2770/Seeing_in_the_Dark), where the 1-st or the 2-nd roll of the same design act as a male mold or a female mold.

A Comet as a Gas Expulsion

The same picture <http://photojournal.jpl.nasa.gov/catalog/PIA06166> shows a giant crater above the Maginot line, which is a result of almost instant extrusion (expulsion) of compressed fluid medium (gases) into external space out of any star or planet while they are being shaped by the mill rolls. The process of gas expulsions from a star or planet occurs as a result of their heating in the hottest galaxy zone heated by a life torch (a bulge). Craters in stars and liquid planets are not observed.

Gas “expulsions” are small comets of the second type. The first type is gas toroids formed in the rolling mill together with stellar system elements [2], e.g. Halley’s comet. The first type comets are thousands times greater in size than the second-type comets.

A similar crater on the Earth (below) consists/is formed of the following mountain systems (clockwise): the crater shaft – Tibet (!!!), Himalayas → Pamir → Tien Shan → Kunlun Shan, Altun Shan; the crater bottom is the Takla-Makan desert.

The author made an attempt to reduce graphically the crater shown in the space photo [9] to its original form.

Crater groups of various sizes exist on all planets and stars (not to be mistaken for volcanic activity). For instance, in the vicinity of the biggest Earth crater, which I would call Kozhevnikov Crater, at the left below there is another crater outlined by white line.

Time Structurization in Galaxy. Calendar

The main technical features of a VTortex galaxy as a high-efficiency self-supported system with well-coordinated functioning of its components and adequate structurization energy to provide all the above (external, free energy) include:

- weight (P_t), density (ρ_t), volume (V_t), surface area (S_t);
- VTortex complexity (V_t/S_t) [10],
- linear eversion velocity;
- linear motion velocity and weight of the central body;
- eversion/envelopment factor, **SH** (Shikhirin constant) for gas or liquid VTortex [2],
- particular number of turns/rounds in the torus knot $3n_p \{n_q + [(n_q - 1)/2]\}$,
- angular velocity of “small cardans” rotation (Figs. 4 and 5) round their longitudinal axes respective the torus knot thread, and their physical and technical parameters;

- sizes of Shikhirin cells⁷ bases, or deformable honeycomb cells, in different areas of the VTortex surface;
- VTortex length, diameters of source- and sink ends (the sink end is greater than the source end) or VTortex cone angle;
- volume and flow rate of fluid medium entering the VTortex galaxy and subsequently evacuated from it for regeneration. Due to tapering (see the “bloating law” later) the flow rate of incoming fluid medium constantly increases and always exceeds its evacuated amount;
- the profile of rolls (“small cardans” in the VTortex central part) of the super-cold rolling mill for rolling a set of “parts” such as a set of solar system planets along with the sun;
- linear and angular velocity of “parts” (planets or hailstones) thrown into a branch (a sling effect) after processing in the rolling mill. *In further deliverables the author will try to prove why the so called “gravitylaw” does not work in Nature as well as mechanics of the “sling effect” adjusted by the author to, e.g., stellar system formation;*
- weight of a complex group of “parts”, specific density of every “part”, distance between the “parts”,
- succession and conditions of planets, stars, etc. formation;
- number of honeycomb cell edges/rolls and “nodes” (connection of 3 edges/rolls in the interconnection of 3 honeycomb cells) that simultaneously traverse the VTortex central part (Fig. 3) (Table).

Table

Number of honeycomb cell edges/rolls and “nodes” (connection of 3 edges/rolls in the interconnection of 3 honeycomb cells) that simultaneously traverse the VTortex central part

Traverse mode (Рис. 3)	Galaxy ($3n_p, 2$)	Tornado/Whirlwind ($3n_p, 5$)
A	6	15
B	8	20
C, D	$(2 \times 3) + 4 = 6+4=10$	$(5 \times 3) + 10 = 25$
Forms produced by the helical rolling mill	Dodecahedron or its variations	“Faceted” ovaloids, “super-snowflakes”, etc.

The number of honeycomb cell edges/rolls and “knots” (connection of 3 edges/rolls in the interconnection of 3 honeycomb cells) that simultaneously traverse the central part of a VTortex galaxy or tornado is an illustration of substantial difference in the “complexity” of a rolled part (its volume-to-surface area ratio [10], for instance a “super-snowflake” – a giant hexagonal ice snowflake – has an order of magnitude greater complexity than a dodecahedron.

In further deliverables the author will describe:

- технологию формирования «жидких» (планеты «юпитерианской» группы), «твердых» (планеты земной группы) и «горячих» планет (Солнце как звезда), а также их спутников, комет, малых комет, поясов Койпера и т.п.,
- planet formation technologies for “liquid” (“Jupiter” planet group), “solid” (“Earth” planet group) and “hot” (the Sun as a star) planets as well as their satellites, comets, small comets, Kuiper belts, etc.;
- shaping processes for planets, stars, hailstones and water “pieces”(raindrops);
- cavitation processes in fluid medium as one of specific features of the helical rolling mill in the VTortex galaxy, etc.

Time Structurization (First Approximation)

The Julian, Gregorian, lunar other “natural” calendars are only time reflections of operating modes of a 2-roll mill for super-cold helical rolling of stellar systems moving along with the “material” of a giant torus-like VTortex galaxy shell everting from its central part to its periphery into the “Life Belt” and then equidistantly [11] respective its toroidal surface.

All time movement trajectories of stellar systems and their components, including the Solar system, are determined by constructive ballistic characteristics of the output part of the super-cold helical rolling mill where the output part is represented by two coupled “barrels” (“a two-barrel gun”)

As a matter of fact, these characteristics reflect time structurization in our Galaxy, particularly on the Earth

The author has a 20-year work experience at Izhevsk plant (Russia) R&D departments established, by the way, by him. Therefore, he perfectly knows and uses

the “rifle and missile” terminology best suited for description of processes of shooting/throwing stellar systems out of the “two-barrel” helical rolling mill with subsequent complicated “gliding” in one of the two galaxy hoses. Such terms include:

- “caliber” – “material” and mass of planets and satellites;
- number of “grooves” (for rotation) – two branches;
- trajectory and “range ability”;
- initial velocity of stellar system, planet, etc. “flight”,
- “magazine capacity” – number of planets and their satellites in a stellar system;
- “firing” rate and accuracy;
- propellant charge power;
- impinging gases – small comets, etc.

As seen from physical and technical characteristics of any active VTortex galaxy, all time intervals, VTortex geometries including products of its activity (the Solar system, the Earth, the Moon, etc.), their location in space, continuous flight unaffected by the “gravitylaw”, etc., are set by the VTortex-galaxy itself. **In other words, the Vtortex galaxy generates its own calendar and calendars of the Solar system, the Earth, the Moon, etc. Moreover, while doing it, the VTortex-galaxy automatically controls its parameter modes.**

In 1973-75 the author served as an officer in rocket-and-space troops doing different engineer jobs in the Mission Control Center in the city of Yevpatoria (the Crimea) and *in August 1975 he took part in servicing the computer equipment that controlled the legendary “Soyuz-Apollo” flight, therefore he understands the physics and is familiar with the near-Earth, Solar and Galaxy space including specifics of the sphere-like surface, “flat” disk and toroidal surface, respectively*

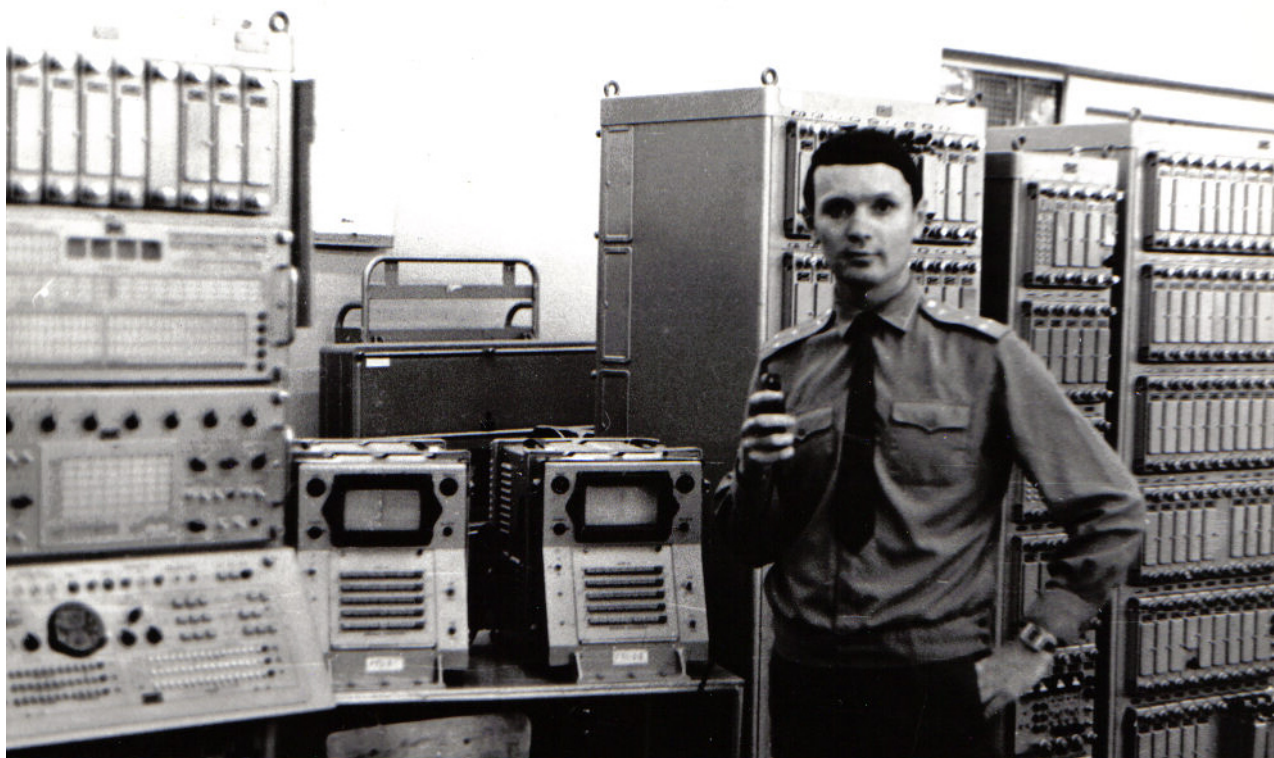
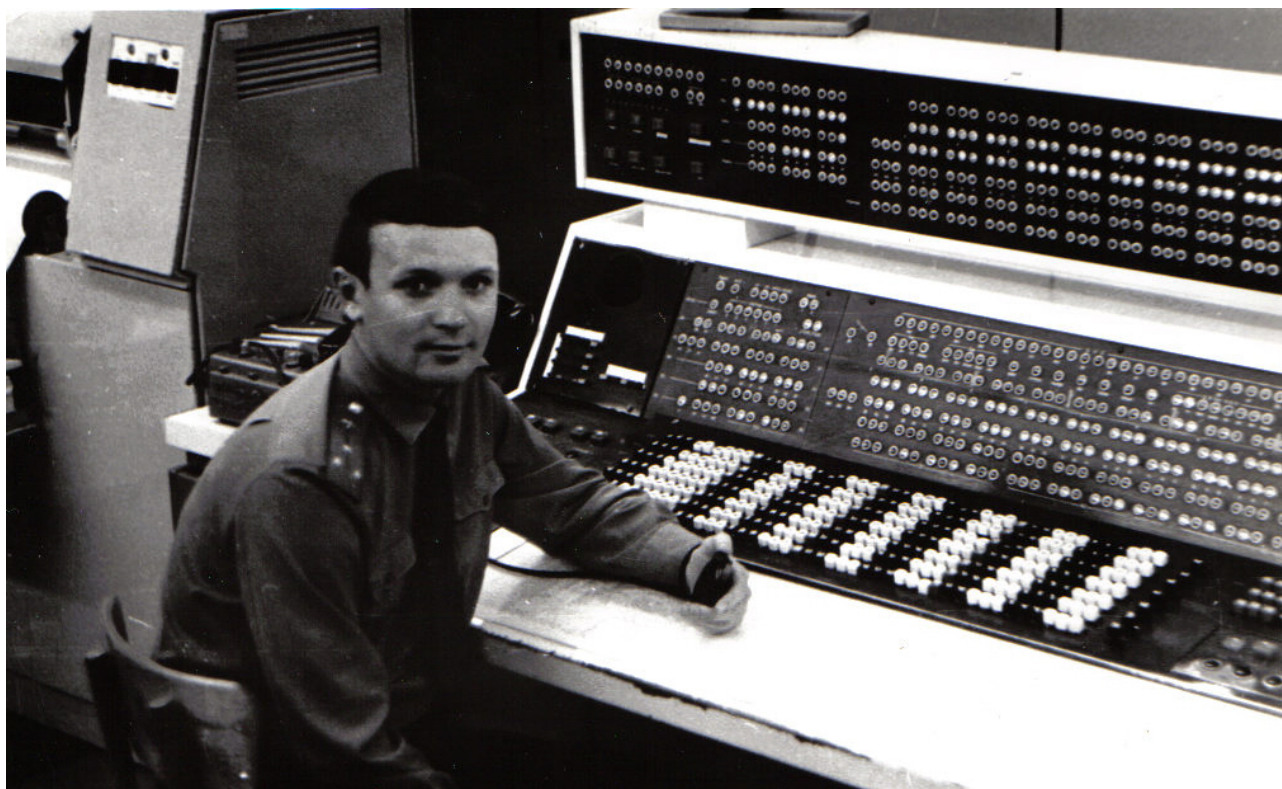


Fig. 8 The author at the control panel of an M-220 computer and near the receivers-transmitters of on-board telemetry information, August 1975.

© A photograph from the author's personal collection.

So, the two branches everting together with the Galaxy shell “material” and rotating simultaneously round their longitudinal axis perform the most important structuring functions in the Galaxy lifetime: the time function and the climate function

Time function determines:

- periods of planets rotation round their axes, e.g. ~ 24 hours for the Earth, 60 hours for Mars;
- periods of planets rotation round the Sun, e.g. ~ 365 earthdays, for the Earth, 665 earthdays for Mars;
- “cold” and “hot” periods;
- number of rotations (helical ramping periods) around the hose/branch made by “solar” systems; Chizhevsky cycles of solar activity and alike are calculated on this basis

Climate function determines:

- year seasons, e.g. winter-spring-summer-autumn for Earth;
- periods of solar activity, e.g. 11 years for the Sun; there are more “spots” closer to the “Life Torch” and less “spots” farther from it;
- global climate change in the Solar system, including the Earth, understood as gradual and irreversible fall of temperature with subsequent freezing to minimal “space” temperatures.

The author believes that:

- the temperature and pressure at the input of the super-cold helical rolling zone (“the charging mechanism”) are **abnormally lower** than “the lowest” temperature and pressure values that can be found in current “literature” but not in Nature;
- the temperature and pressure at the output of the super-cold helical rolling zone (the rolling mill barrel”) are **abnormally higher** than the “highest” temperature and pressure values that can be found in current “literature” but not in Nature.

In further deliverables the author will describe planned climate change periods on the Earth that were recorded in the past and expected in the future as well as numerical values of temperatures and values (at least their order) in any active galaxy.

“Life and Death Torches” and “Life Belt”

The moment of generation/formation of a giant VTortex galaxy soliton (any VTortex, including a whirlwind) gives rise to a powerful information-energy/field system [2,3] adequate for its stable self-existence for a certain period (many hundred thousand years for galaxies or days, hours or minutes for a tornado), where:

- the information system is a structured/specifically marked surface and the internal space of the soliton, i.e. $7n_p$ zones/honeycomb cells/colors having common boundaries and $7n_p$ densely packed Shikhirin cells⁷, respectively [1];
- the energy/field system is a group of fields automatically appearing when the VTortex switches to a self-supported mode.

“Life and Death Torches”

During operation of the mill for super-cold helical rolling of the VTortex galaxy, the mill rolls rotating in one direction and the preform (the central body) rolling in the opposite direction perform a rolling operation on each other. This operation followed by fabrication of “parts” from the perform results in strong electrification.

The process is followed by pressure and temperature increase in the VTortex explosive centrifugal radial source zone and the surrounding space (“clouds”, honeycomb edges – Plato-Shikhirin channels₃₇) where all stellar matter is concentrated (the positive pole of the Milovich dipole [12, 2]).

Here “hot” electricity is generated whose yellow “light” can be observed in any active galaxy as a bright yellow (hot) light spot - the Life Torch, called “the Bulge: (Fig. 9, top left)

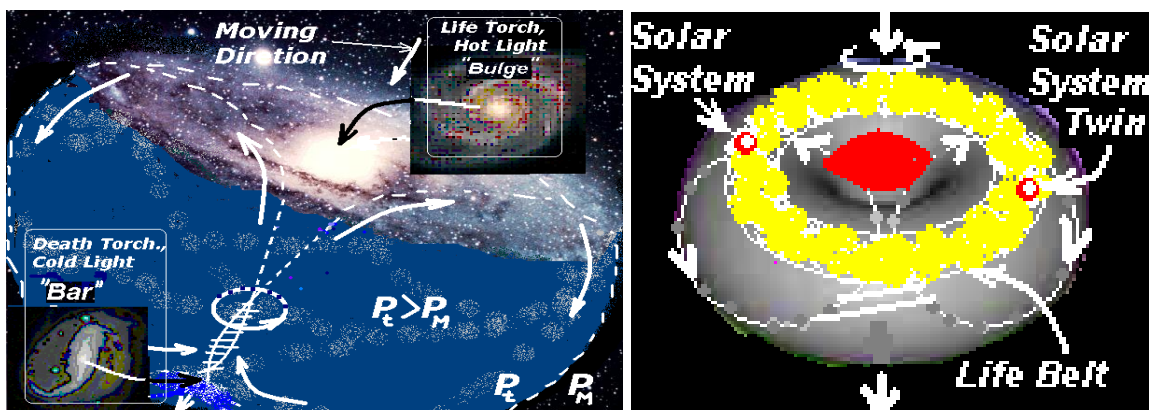


Fig.9. Andromeda Nebula as an active galaxy (left) and the location of the Life Belt in any active galaxy

For instance, electrification in a VTortex tornado results in subsequent discharge in the form of a lightning since the latter has ground to discharge; therefore, the VTortex tornado gets weaker and falls apart.

In the VTortex-galaxy where there is no “ground” and hence preconditions for its weakening and further disintegration, this most powerful electrostatic charge – the Life Torch – continues to power and support a particular zone at the everting end of the galaxy – the Life Belt where solar systems (including our Solar system) are located.

This process continues until the VTortex galaxy exceeds its typical dimensions in compliance with the Law of Bloating (see later) after which:

- the two-branch VTortex splits into two vortices – two young galaxies; or
- the galaxy shell is unsealed and the fluid medium (halo) being under excess pressure spills into space together with stellar matter where it turns into shapeless “nebulae” and “dead” galaxies.

While the fluid medium stream is escaping from the shell the stellar matter continues to move by inertia for some time following the shapeless halo cloud and gradually comes to a standstill when the inertia forces are balanced by opposite environment resistance forces.

In the zone of the enveloping end of the VTortex galaxy – the implosive radial centripetal sink – honeycomb edges “smeared” at the periphery of the VTortex galaxy are united with powerful acceleration into a tight vortex bundle [2]. The honeycomb cells stretch out while their edges continue rotation round their longitudinal axes and are still electrostatically charged though in a much weaker degree.

As the vortex bundle is generated the charges present in the implosive centripetal radial sink zone (“black hole”) are summed in the ambient space followed by temperature and pressure drop that occurs due to the fluid medium suction (the negative pole of Milovich dipole [12]).

Concentration of these charges results in “cold” electricity, or the “Death Torch” with its “light” seen in any active galaxy as a bright white-blue light spot, the so called “bar” (Fig.1, middle right).

The edges of two hoses/branches rotating round their longitudinal axes are “captured” into a vortex bundle with a force so great that the edges are pressed into

the shell following the line of the least resistance, i.e. the straight line, as clearly seen at the enveloping end of the VTortex galaxy (Fig.1, middle right are former SB galaxies), the so called “bar”.

“Life Belt”

The Life Belt, or the so called “co-rotation zone”, is a toroidal cone-like “puck” (Fig. 9, right, and Fig. 10), and according to the “Bloating Law” it has a minimum thickness near its hole, or at the beginning of the Life Belt, and a maximum thickness at its end, or at the end of the Life Belt.

The Puck is located equidistantly to the enveloping end of the VTortex galaxy (toroidal surface) and energized (heated/illuminated) by the Life Torch within the Life Temperature Limits, T_L , needed and sufficient for maintaining life in solar systems (including our Solar system).

That is, $T_L = T_B - T_E$, where T_B is the initial temperature of the Life Belt existence (the beginning of the thin layer of the Puck), and T_E is the final temperature of the Life Belt (the end of the Puck thick layer) (Fig. 11, right).

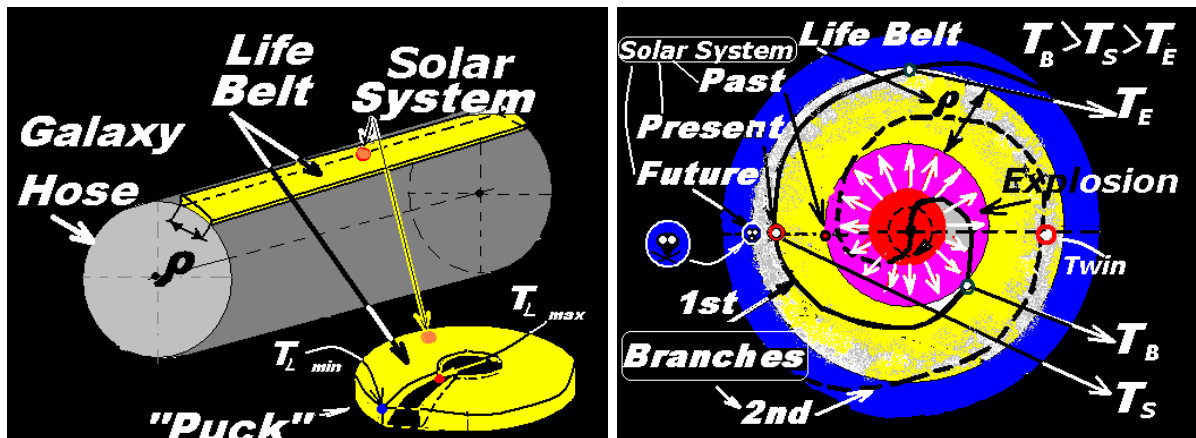


Fig.10. Life Belt on a cylindrical representation of any active galaxy (left) and its top view (right)

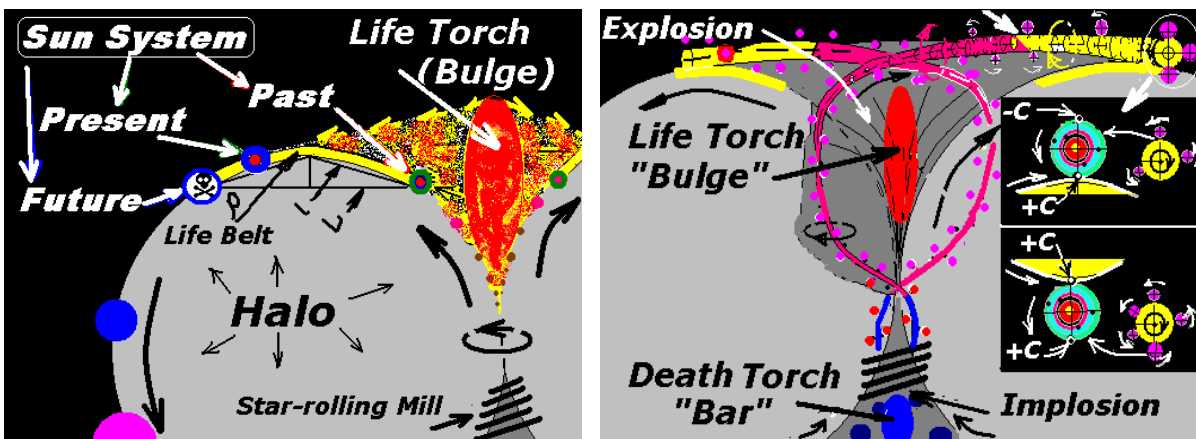


Fig. 11. Movement in time “through” the Life Belt and Life Torch of our Galaxy and macroclimate change (left); Life Torch and Death Torch and microclimate change in solar systems of our Galaxy or any other active galaxy (right).

Secondary/local energy sources for solar system elements “heating” are suns themselves acting as transformers/re-transmitters of energy coming from the Life Torch.

By analogy, a candle burns only in the presence of oxygen surrounding and feeding it.

In other words, the Sun shines and gives warmth only when the Life Torch covers the Life Belt (where our Solar System currently is) with its energy. When the Solar System (or any other solar system) leaves the Life Torch energy field (explosive radial centripetal source) it suffers a deficit of the Life Torch energy powering the Sun and the latter will gradually die out to result in “super-freezing” of the Solar System elements including the Earth.

Any of the two branches of any active galaxy, e.g. the branch housing our Solar System has the following “temperature-related” specifics:

- it performs helical movement in a radial manner together with the Galaxy shell “material” in the direction from its geometrical center (centrifugal motion). Its transverse diameter and length increase nonlinearly in the same direction according to the “Bloating Law” (see later)
- the temperature inside the branch radially decreases in the direction from the central part/longitudinal axis of the Galaxy towards its periphery (the eversible end), or from the initial T_B (the beginning of the Puck thin layer) to the final T_E (the end of the Puck thick layer).

At present the temperature of the Life Belt with our Solar System, T_S (‘s’ for ‘Solar System’), is within the $T_E - T_B$ temperature range, i.e. $T_E < T_S \ll T_B$, tending in the near future (in less than 100 years) to $T_E = T_S \lll T_B \rightarrow T_E > T_S \lll T_B$. We might say that “Cold has crept up unnoticed”

- Life temperature at the top side of the Puck, or t_T , is lower than the temperature at its bottom side, or t_B .

A solar system has two opposite points located on its disk that performs a rolling operation on a honeycomb cell edge (inside a Plato-Shikhirin channel₃⁷) along helical

line. These points are $-C_1$ and $+C_2$ that touch the honeycomb cell edge and points $+C_1$ and $-C_2$ located at the opposite side.

- the maximum temperature is in point $+C_1$,
- the minimum temperature is in point $-C_1$,
- lower to higher temperature distribution in points: $-C_1, -C_2, +C_2, +C_1$.

Temperature and pressure formation inside the honeycomb cell edges – tight and elastic threads rotating in one direction respective their longitudinal axes (Plato-Shikhirin channels₃⁷) – is described in [2].

Such a “variety of temperatures correlating with one another due to complicated movement of solar systems in the surface layer of any active galaxy yields a sort of nested temperature picture like “cycle in cycle, in cycle, in cycle...”

A similar “variety” of intercorrelating time periods in the Solar System and its component elements - planets and their satellites – yields a time picture “cycle in cycle, in cycle, in cycle...”, referred to as calendars among the Mankind.

It is obvious that Knowledge including “calendars” was brought to our planet by our ancestors who came to it from another “freezing” solar system to save their population.

This Knowledge was mouthed by later descendants, e.g. by Plato. As for the contemporary “mankind”, it has now reached the peak of intellectual degradation with huge practical (1) knowledge lost uncalled. The intellectual peak, from the point of view of contemporary “scientists”, is “solution of the n^{th} message to Mankind” or the Da Vinci Code or any “encrypted knowledge”, no matter that it is an open secret where all these “mysteries” that need no decryption came from.

So, the “galaxy/accretion disk” is the top or bottom view of any active galaxy. This image is a projection and distorted/flat picture of the actual view of the upper or lower part of the galaxy. To impart the third dimension to the galaxy, we need to have at least its side view (Fig.9, left).

Our torus Galaxy and the so called “galaxy disk” have equal diameters of about 100 kpc, with the distance from the Galaxy center to the Solar System of about 25 kpc [4].

Numerical data may have been taken from any random information source or even “invented” since both geometrical and time data of the “space” scale are purely imaginary, not substantiated and made up with an error of thousands per cent.

A galaxy is a closed deformed torus having a pear-like or apple-like appearance with:

- equal radii of 25 kpc (for easier calculations)
- volume of $\pi\pi R_t^3 = 2 \times 3,14^2 \times 25^3 = 307812,5 \text{ kpc}^3$
- area of $4\pi\pi R_t^2 = 4 \times 3,14^2 \times 25^2 = 24625 \text{ kpc}^2$, where π is a spherical Pi and π is a toric Pi [1-3].

To determine the galaxy weight, it should be looked upon as a toroidal elastic/soft thin shell filled with working/fluid medium under excess pressure consisting of the same gas as the one that surrounds it. By analogy, whirlwinds generated in fluid media, e.g. in river meanders; consist of the same fluid media.

The main power characteristics of any VTortex [13] including any active galaxy are as follows:

- the material tension at the ends of the elastic toroid is twice as low as the one at its periphery;
- the stretched central part of the elastic toroid is an internal restrainer which reduces by half longitudinal loads on the shell material as it is arched from inside by the working/fluid medium under excess pressure contained within.

Galaxy composition:

- fluid medium (gas) under excess pressure (halo) occupies over 93-97% of its volume and 5-10% of its weight, and
- the galaxy shell “material” with all stellar matter account for the remaining 3-7% of the volume and 90-95% of the weight, respectively.

In other words, the width of the cone-like Puck (ρ) (Life Belt) is about 20-25 kpc, and its thickness is between 1 (the beginning of the Life Belt) and 1.5 (the end of the Life Belt) kpc. Our Solar System has covered a distance of 16-20 kpc of the Life Belt, which corresponds to over 4/5 its width.

The length of the arc/width of the Life Belt, ρ , or any of its parts, for instance, the distance covered by our Solar System may be calculated using the Huygens formula [13]:

$$\rho \approx 2l + 1/3(2l-L),$$

where l means the isosceles triangle sides approximating the arc ρ , and L is the triangle base (Fig.11, left).

Our Solar System has passed the most favorable hot/warm zone of the Life Belt and started its movement into the unfavorable super-frosty zone followed by freezing and death of life on the Earth. The answer to the survival problem is obvious – timely preparation and emigration to another planet as was done by our “clever” ancestors before us [Figs. 12, 13].

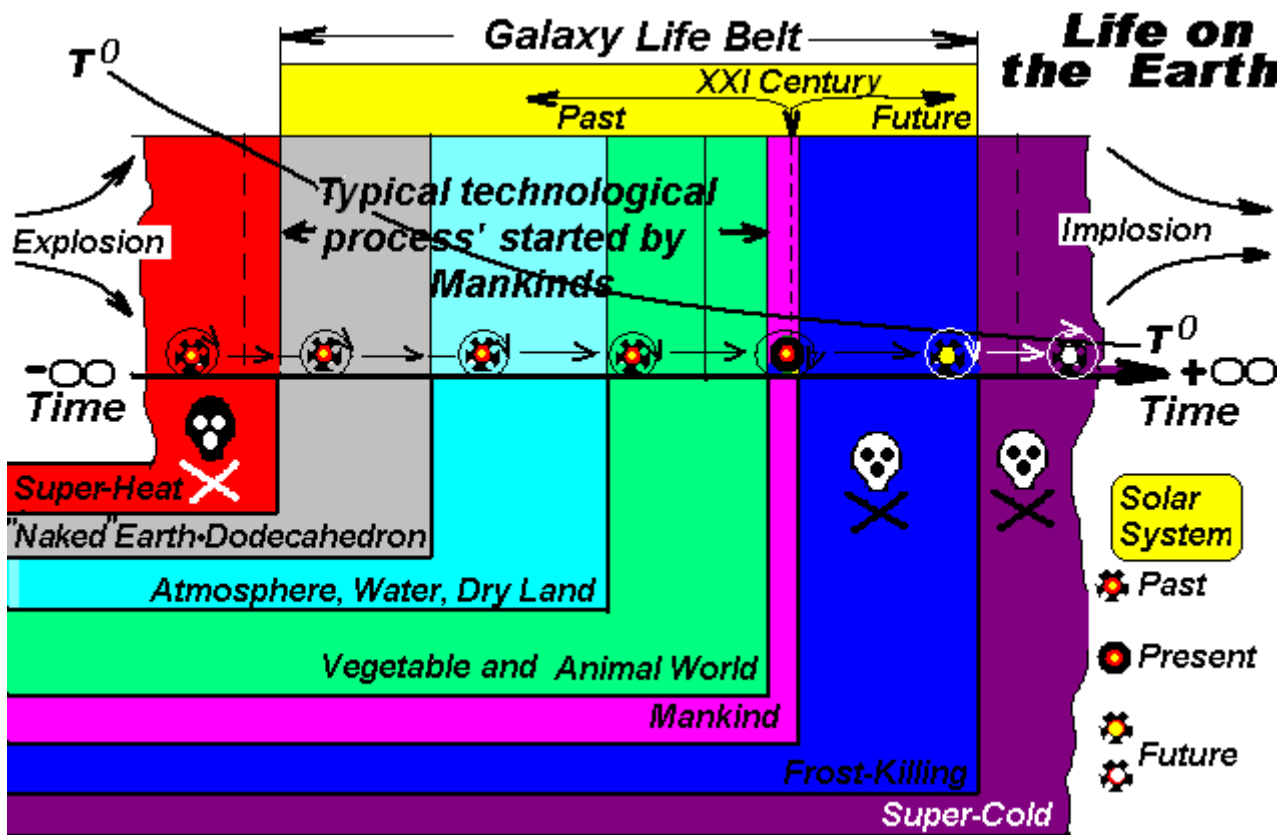


Fig.12. Formation of principal "life" phases on the Earth by more developed civilizations. The time scale is arbitrary.

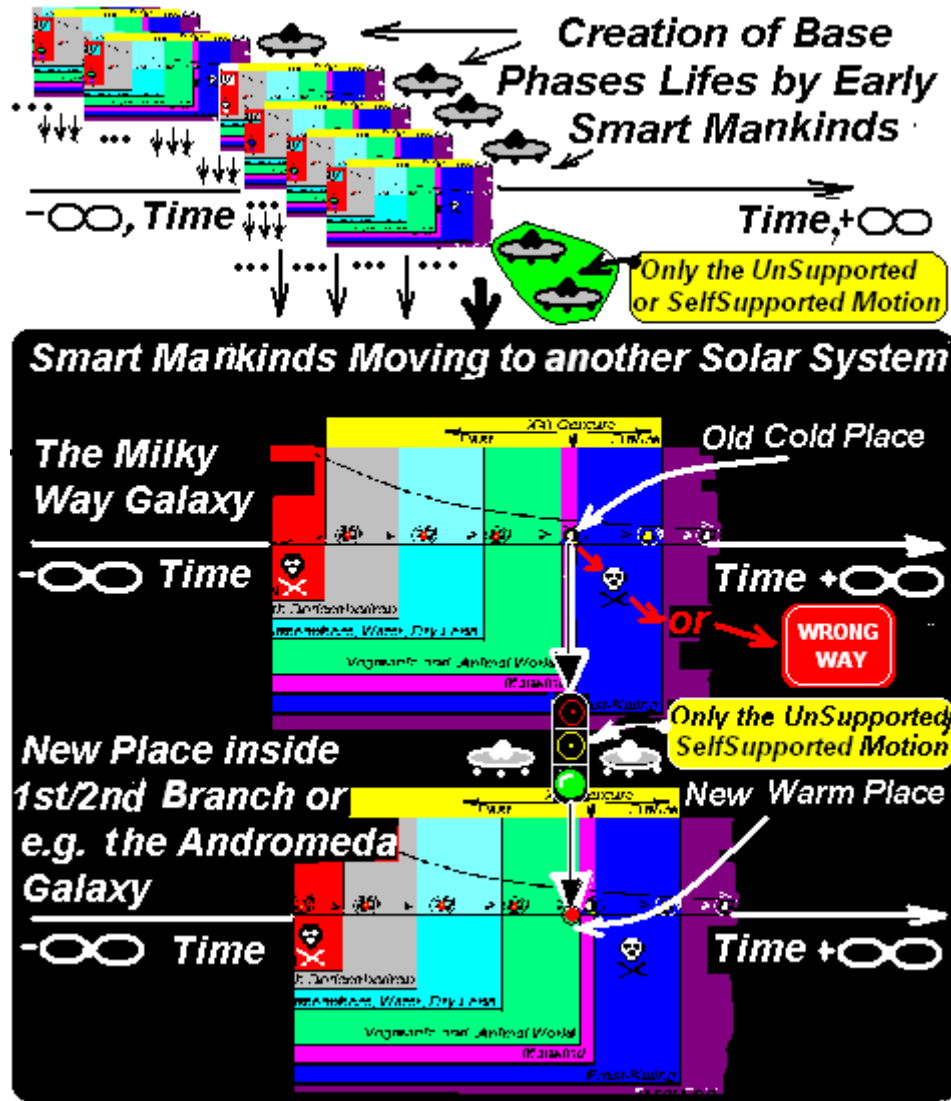


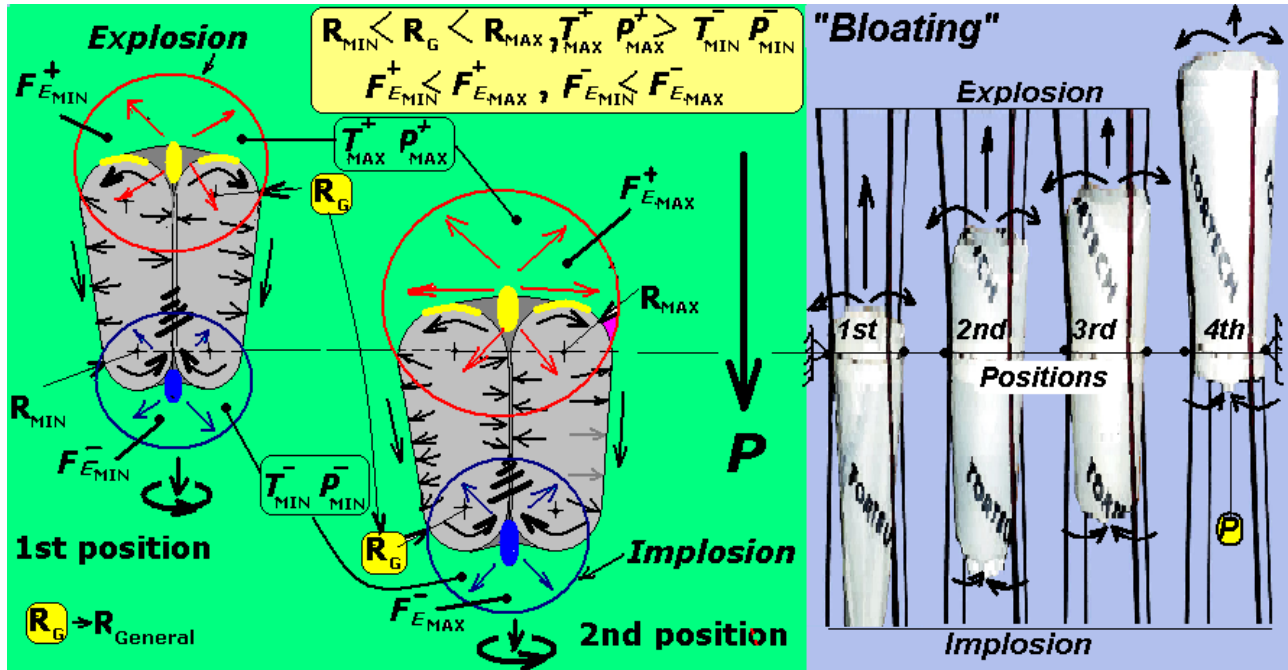
Fig. 13 Time for Mankind to emigrate to another planet prepared for life by other civilizations.

VTortex “Law of Bloating” (Fig. 14)

The electrostatic energy field (E^+) of the Life Torch propagates radially from its epicenter (Fig.11) thereby “heating” and hence energizing and “illuminating” not only the Life Belt but also the upper part (in the eversible end area) of the compressed fluid medium contained in the toroidal shell of the VTortex galaxy.

When heated, the working/fluid medium inside the toroidal shell of the galaxy expands (the temperature T^+ and pressure P^+ are rising) increasing thereby the eversible end diameter and its volume, respectively. That is, conditions are created for maintaining the VTortex conicity and hence the continuously increasing motive force in the direction from the enveloping towards the eversible end [15]. The cone angle is $\sim 3^\circ - 5^\circ$ and remains unchanged.

As the larger diameter of any conical VTortex structure, including any galaxy, continuously increases its virtual shell material is getting less tense (loose). In this case the branches look like ideal coils combined but not intermingled in the “bulge”, as seen at the eversible end of the VTortex galaxy (Fig.1; top left view are former S galaxies).



Fig, 14 Maintaining constant conicity: bloating, i.e. increasing physical parameters of any natural VTortex, or Shikhirin dipole (left), including galaxy parameters, enables **unsupported or self-supported** downright movement [2] by enveloping into the discharge area. To the right is a technical cone-like torus, or Kozhevnikov dipole, which in the process of bloating (the bloating sequence is shown by photos) performs **supported** upright movement.

The electrostatic energy field (E_E) of the Death Torch propagates radially from its epicenter by “cooling” and “illuminating” the lower part (in the enveloping end area) of the compressed fluid medium contained in the toroidal shell of the VTortex galaxy.

When being cooled (the temperature T^- and pressure P^- get lower) the fluid medium “shrinks” and reduces the enveloping end diameter and its volume, respectively. That is, conditions are created for better maintenance of VTortex conicity and hence for continual increase of the motive force in the direction from the enveloping end towards the eversible end [15]. The cone angle remains unchanged.

Therefore, the continual “uncontrollable” increase of the eversible and the enveloping end diameters with the cone angle unchanged leads to nonlinear increase

of the volume/mass of any VTortex galaxy and increases the flow rate of working/fluid medium under excess pressure, etc.

It comes natural that immeasurable increase of any VTortex galaxy or tornado metrics will continue till some values are achieved critical for their existence, which fact will eventually lead to

- self-destruction of any of them, i.e. to disruption of their shells and evacuation of the compressed fluid medium to space;

- ***disintegration into smaller VTortex structures equal in number to the value of the second part of the torus knot $3n_p \{n_q + [(n_q - 1)/2]\}$, namely $\{n_q + [(n_q - 1)/2]\}$.***

For instance, the $(3n_p, 2)$ VTortex galaxy will break into two $(3n_p, 2)$ VTortex galaxies and the $(3n_p, 5)$ VTortex tornado - into five $(3n_p, 5)$ tornados, respectively, with subsequent processes of their “bloating”, disintegration and self-destruction.

The death of any active galaxy is followed by release into environmental space of future “gas nebulae” filled with ionized and luminous “interstellar gas” along with “irregular” (***Irr***) galaxies – “shrapnel” consisting of stars and planets hanging loosely in space.

Immediately after the death of a tornado (whirlwind), compressed gas (air) is thrown under pressure radially into the atmosphere thereby ionizing the environment, i.e. creating “ozone” space and conditions for appearance of a semispherical rainbow cupola while tons of water fall onto the earth all at a time.

When any VTortex structure bloats, so do its integral parts in the direction from the implosive edge towards the explosive one, e.g. branches/hoses (honeycomb faces) bloat radially and linearly respective their longitudinal axes [1, Fig.4].

Incidentally, “bloating” processes in any VTortex structure are identical to processes characteristic of bloating, ripening, e.g. of an apple that accumulates its physical parameters in a “toroid-like manner” by means of natural fields energy, primarily structurization energy.

All that has been studied and described by the author can be double-checked and supplemented by college and university students in preparation of their graduation theses or course projects.

Calculation of “Gathering” and “Dispersion” Velocities of Galaxies

Modern observation tools, such as telescopes that allow watching distant bulk space objects (e.g. galaxies) from one point are not able to process flat images and generate bulk images on their basis.

Moreover, there is hardly any sense doing it since all active galaxies in the Universe have only one form of an eversible toroid/torus that according to the Law of Bloating increases in size changing only its proportions.

Therefore the author proposes a methodology of determining real eversibility velocities of active galaxies as well as their sizes and a distances thereto based on available “flat” images of their different perspective views (Fig. 15).

This methodology can be also applied to our Galaxy for simulation and location of our Solar System, velocity of its movement into the Death Melt and hence preparation of Mankind for climate cooling and subsequent emigration to another planet.

Lets us take sector $O_{sp}PO_T$. The arc PO_T is line along which stellar matter including our Galaxy moves with a certain velocity. The segment $O_T O_{sp}$ is a line segment along which any stellar system located in one of the two helical branches of the galaxy is moving. Through a telescope we can watch just this “flat” segment that is followed by stellar systems.

Lets us try to use this segment to reproduce the actual kinematics of stellar systems motion, for instance the motion of our Solar System located in the initial point of the Life Belt.

The length of the arc, PO_T , i.e. the actual distance covered by the Sun System, is equal to $\pi R \alpha / 180^\circ$.

The length of the segment $O_T O_{sp}$ is R , while the covered distance $O_T P'$ visible in the telescope is $(R - O_{sp} P')$.

Both distances, the circular arc $O_T P$ and the line segment $O_T P'$, are covered for one and the same time period t .

Therefore, it is possible to find the relationship between the real (continuous) velocity V_R with which the Sun System covers the way $O_T P$ and the virtual velocity V_V with which the same way is covered when watched in the telescope and which “does not fall within mechanics laws”.

Assume a triangle $O_{sp}PP'$, where $PP' = R \bullet \sin \alpha$, then

$$O_{sp}P' = \sqrt{R^2 - (R \bullet \sin \alpha)^2} = R \sqrt{1 - \sin^2 \alpha}, \text{ and}$$

the sought segment

$$O_T P' = R - O_{sp} P' = R - R \bullet \sqrt[3]{1 - \sin^2 \alpha} = R \bullet [1 - \sqrt[3]{1 - \sin^2 \alpha}].$$

Then the time t spent to cover the segment (arc) $O_T P$ and, accordingly, the projection $O_T P'$, will be equal to

$$t = \pi R \alpha / V_R 180^0 = R \bullet [1 - \sqrt[3]{1 - \sin^2 \alpha}] / V_V.$$

From this expression the real velocity with which the Sun System moves at the Galaxy periphery will be

$$V_R = \{V_V 180^0 [1 - \sqrt[3]{1 - \sin^2 \alpha}] \} / \pi \alpha$$

or

$$V_R / V_V = \{180^0 [1 - \sqrt[3]{1 - \sin^2 \alpha}] \} / \pi \alpha.$$

The velocity of traditional “dispersion” of the Galaxy increases non-linearly from the center of the “accretion” disk towards the torus “inflection curve” (the maximum value) and decreases mirror-like from the inflection curve towards the boundary of this virtual disk (the minimum value).

The above formula also reflects in a “mirror-like” manner the way covered by the Solar System after crossing the inflection curve and allows calculation of any particles located at the periphery of any VTortex irrespective the radius of its end.

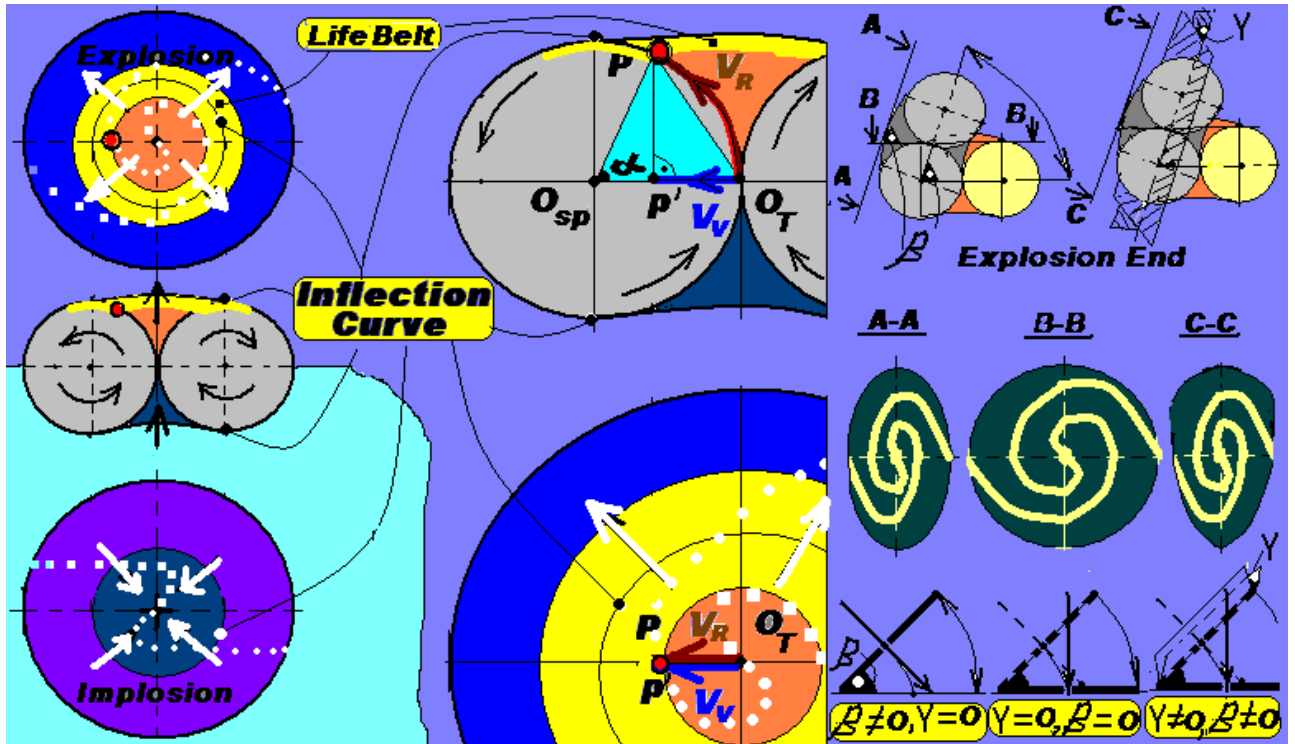


Fig. 15. “Dispersion” and “gathering” processes in so called “dispersing” (the explosion end) or “gathering” (the implosion end) galaxies, respectively.

Fig. 15 right view shows the explosion end of any active galaxy located at angle β to its top view surface and angle γ to the surface of its end; an actually located galaxy and the author’s “tool” which based on the external view of, e.g. the explosive or the implosive end of a galaxy located at any angle makes it possible to form/calculate:

- top or bottom view of the galaxy;
- galaxy dimensions;
- galaxy age (by the Law of Bloating);
- distance to the galaxy, etc.

It should be noted that any active galaxy as a torus-like figure tends to a closed torus, hence its so called “accretion disk” is a circle (top view) and angles $\angle\beta = 0$ and $\angle\gamma = 0$, or “regular” or “irregular” ellipses corresponding to these views at $\angle\beta = 0$, $\angle\gamma \neq 0$; or $\angle\beta \neq 0$, $\angle\gamma = 0$; or $\angle\beta \neq 0$, $\angle\gamma \neq 0$.

Artificial Breaking of the Earth

Since all planets and stars have super-low pressure in their central part (the so called “core”) (Fig. 16) [3, 17], its depressurization, for instance, at our Earth will lead to instant suction of the atmosphere (or its part) into this “core”, i.e. to development of a giant whirlwind, or an implosive radial centripetal sink. The resultant pressure gradient will immediately wipe out the majority of living beings on the Earth, primarily people, irrespective of their social position. The suction will finish when pressure balance is reached between the atmosphere and the Earth shell. Then after losing its contracting capability provided by the super-low pressure in the core – the Earth will gradually start breaking to pieces to become a gathering of huge fragments.

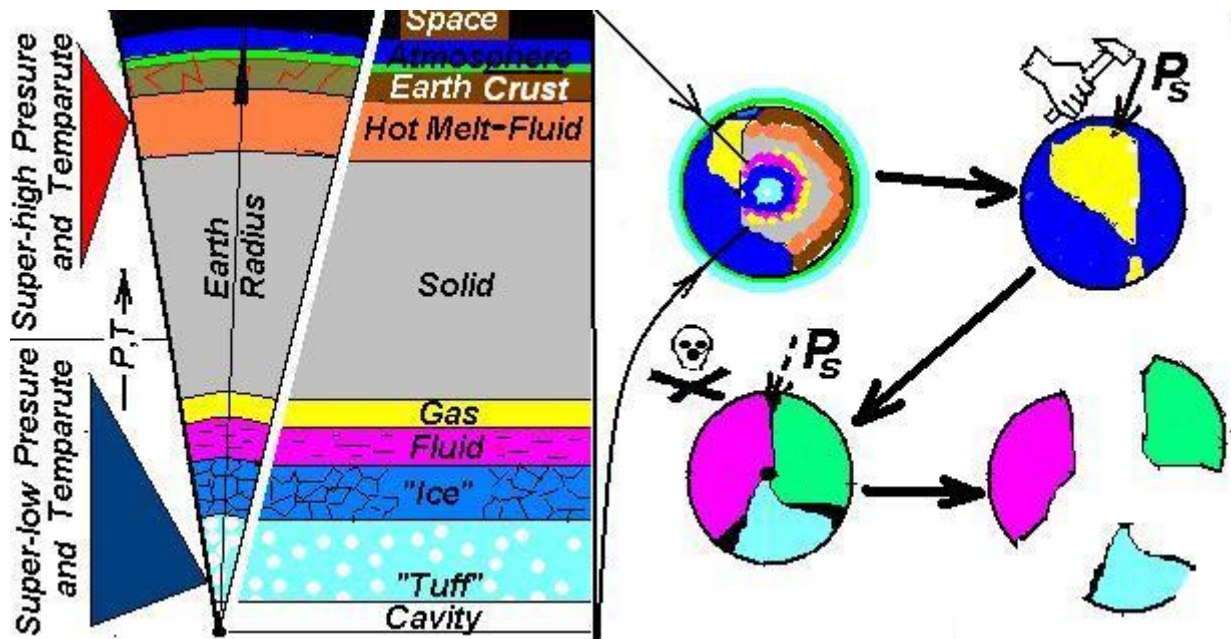


Fig. 16. The internal structure of any star or planet (without the crust), e.g. the Earth (according to Shikhirin) resulting from pressure treatment of materials by super-cold helical rolling, followed by “thawing” by the Life Torch (dimensional scale is arbitrary), as well as consistent breaking the planet into pieces by artificial disruption of its shell.

If the shell integrity of a star or a planet, whose shape is maintained by means of super-low pressure potential in its center, is damaged, then the star or a planet will break apart.

The Earth “core” may be depressurized by the following reasons:

- super-deep (over 6 km) drilling of the Earth for different purposes, e.g. for gas and oil extraction (Kola super-deep well);
- particularly dangerous is “research work” (!?) aimed at producing super-deep holes (Deep Sea Drilling Project) to obtain “additional picture of the Earth external shell and upper mantle composition”, or “predict and study earthquakes” and “throw light onto life origin on the Earth”;
- any nuclear explosions, first of all underground explosions, etc.

P.S. On December 9, 2006, “an experiment aimed at extraction of geothermal energy from the Earth’s interior” was carried out in Switzerland using forced high pressure water injection through a 5 kilometer shaft.

The main and “outstanding” result of this experiment most dangerous for life on the Earth was a 3.4 point earthquake and thousands of phone calls from residents [18].

So far, these are the first signs; the worst is still to come.

Frightful but Real News

Our ancestors came to the Earth perhaps from Mars or another similar planet, from another solar system or even from another galaxy, e.g. Andromeda Nebula, after having calculated the Galaxy life cycle, the possibility of generation of life ensuring atmosphere on the Earth with subsequent development of conditions fit for floral and fauna worlds.

We must survive and hence emigration to another “Earth” is inevitable, which fact makes the cleverest and most active part of Mankind act under “eyes fear but hands work” conditions:

- the only planet in our Solar system to emigrate with minimum costs is Venus which, when cooled, will probably develop conditions for a fit-for-life atmosphere.

In my opinion, it is hardly possible since:

- this will be the last migration option in our Solar system;
- the Venus calendar is biologically unfit for people of the Earth, which will eventually affect the health of immigrants and their descendants;
- after the Earth has frozen, Venus will invariably freeze later. Mankind should have a better plan to save its descendants so that the latter are not condemned to dying out; it should develop an almost impossible solution such as emigration to another solar system or galaxy. Parents ought to create conditions for future life of their offsprings while they are still weak.

Primitive thinking like “there may be even the Flood but after us” will invariably lead us to the situation of the “last but one and the last generations” – fathers and mothers will be aware that their children will die. I think genuine parents will not go that far.

- To find a planet or a planet group (with a good perspective) in our Galaxy or in another younger galaxy is a must.

The primary conditions for emigration to another planet suitable for life are:

- creation of energy information systems based on structurization energy and information (InfEnergy) [1,2], e.g. “unsupported or self-supported” space flight vehicles of a flying saucer type;
- looking for a new living place taking into account the “bloating law” for any galaxy including our Galaxy.

It should be noted that inspection monitoring of planets to be prepared for life is carried out by more developed civilizations (further referred to as “They”) from natural satellites of such planets, e.g. monitoring of our planet is effected from the Moon.

Until They understand and see that our civilization has separated itself from “hydrocarbon” and “atomic” lollipop and turned to the **structurization InfEnergy** (the only correct decision to save its descendants, no contacts with Them, say, with the purpose of “our training”, “to please Them” or “asking for help” will be in vain. Provocation of contacts with them such as a primitive decision to get in touch with Them under a false pretext of the Moon colonization and building “cities” thereon at the expense of huge “people’s” finances will be treated by Them as a deception, just what it really is.

We have to gain approval of such contacts by living a “correct” life.

For instance, it needs a certain time to create vehicles for fast (thousands times faster than existing speeds) covering of giant distances in Space. If the time is wasted They will turn away from us to other civilizations existing along with and similar to us but behaving much cleverer. Assistance will be rendered to them, at least in prompting a direction for seeking another planet as a future home for their descendants. It should be borne in mind that if Mankind starts to live the correct life it may happen that in the future it may be WE who will “inspect” growing up civilizations, etc.

To all those “lords of an hour” – investors and those who like to think, at the state expense, of life (including Man’s life) on other planets of our Solar System or other stellar systems, I would like to provide some guidelines as to where life is indeed possible, whether it makes sense to look for it and where to look for it:

- a desired planet must be an exact copy of the Earth with all its metrics; life should include the entire biological specter, including Man, and the calendar;
- primitive life such as lichens and alike makes no sense, etc.

To look for a solution of the main problem of Mankind, the Earth freezing, the author is currently setting up in Chicago (USA) a Non-Profit Fund **“The Forced Global Space Immigration” – “FGSI Project FundTM”**, aimed at forced preparation for emigration of “Sons of Mankind” to another planet to save their population from natural freezing out of everything alive on the Earth, as was done by our ancestors in time immemorial [16].

Research work to be carried out by **FGSI Project FundTM** institutes will be based on Structurization TechnologiesTM including structurization energy and information (*“InfEnergyTM”*) of which the author is knowledgeable.

The author invites engineers and scientists from various spheres of knowledge to cooperation in this project (so far on the volunteer basis)

Research profile briefly:

- Transport vehicles based on unsupported or self-support movement on land, above and below water, in air and space
- Natural propulsion devices based on unsupported and self-support movement: galaxies, whirlwinds, small comets, ball lightnings, fish, insects, etc.
- Torus technologies and elastic mechanics
- Structurization in micro-, macro- and megaworlds.
- Structurization of the Universe, the Galaxy, the Solar System and the Earth
- The Solar System “twin” in the 2-nd branch of our Galaxy
- Typical forms of fluid medium (matter) existence
- VTortexTM as the superior form of fluid medium structurization in Nature
- VTortexTM galaxy as the Time structurer and cause of climate change on the Earth
- Life and Death Belts, time and temperature indications for Life.
- The “Bloating Law”
- Gas and liquid VTortexTM: a super-cold helical rolling mill for shaping polyhedrons such as planets, hail-stones, liquid drops as well as gas “cavitation” bubbles

- River-channel processes in atmosphere and space
- Natural structurization energy and information [19. 20]
- Artificial structurization energy and information
- Artificial atmosphere and its generation phases
- Floral and fauna world and generation of an adequate set of its constituents
- New emigration places: new galaxy, new warmer place (closer to the Life Torch) in our Galaxy – in our branch or in the second branch
- Torus geometry and navigation tasks for travels in the vicinity of our Galaxy, the Life Belt, the Solar System (routing, distance, time).
How can one perform space flights within our Galaxy or to Andromeda Nebula galaxy? One can hardly do it directly by running constantly into some invisible walls [21] or “hitting” voids. For instance, within the Galaxy one of the two branches (hoses) equidistant to toroidal plane should act as the flight guideline while between galaxies the flight will be guided by the stream channel that houses these galaxies, etc.
- The Man and formation of a “virtual” group of pre-determined functionality
- Vehicles, machines and their application technologies for different galaxies, our Galaxy, the Solar System and the Earth, machinery testing issues, etc.

Conclusion

All “fundamentals” were used by ancient civilizations whose first representatives once emigrated to the Earth from freezing planets of our Galaxy or elsewhere. As the Earth population increased and could no longer be physically controlled such information was made a secret by the “elite” (0.0...1%) , or the knowledge was lost forever or imparted a sacral (something that could not be proved) meaning. The majority of people (99,9...%) were turned to “Mowgli”.

Meanwhile, this information contains the ‘theoretical” basis for “free” or structurization energy, based on which various systems and transport vehicles to carry immigrants to the Earth were created.

Moreover, this energy is the basis for running natural machines and mechanisms such as whirlwinds, galaxies, ball lightnings, and “small” comets and other micro-, macro- and megaworld solitons.

As a result of these activities, our Mankind along with the current “elite” came to a deadlock reflected by the fuel-and-power crisis progressing at a break-neck speed.

Moreover, the global “elite” does not know the way out of the current situation and is still pursuing a course aimed at improvement of controls in primitive carbon-hydrogen-atomic energy industries that promote development in all (no less primitive) science and engineering fields.

All similar activities resulted in emasculation and subsequent collapse of the intellectual level of Mankind that will remain low until a “new” genius is born who will be recognized not earlier than after his death. Unfortunately, geni are not born in succession and do not pass on the baton to one another. It is a piece-sold “human” rarity rather than a subject of business.

It is absolutely necessary for Mankind to put the above-described systems into practice since our Galaxy is a cone-shaped closed VTortex constantly increasing in volume by the Law of Bloating. Finally, on achieving the limits of its typical natural form the VTortex will burst and break to pieces.

All galaxies die sooner or later. In all likelihood, the Galaxy collapse is still far away but in any case we are doomed to freezing out since our Sun system is irreversibly moving together with the shell material from the Life Belt to the cold area, or the Death Belt.

No matter how quiet a life we would like to live (even the mighty of this world) we will hardly be able to do so and have to hurry up to loosen our purse strings to pay for preparations for the Global Space Emigration as the main project of Mankind. For this purpose we have to employ carefully selected “virginal” experts who were not spoilt by “modern” theories and hypotheses and give them proper training.

A Few Instruction Guidelines for Beginners and True Researchers

1. There should be no undisputable authorities for you since all of them started their careers as unknown researchers like you. It was History that made them authorities.

2. Never rely on any “common truth”, since “common truth” was ”established” in various fields of science by a pack of scientists-bureaucrats rather than by Nature. Laws of Nature and technologies based on these laws do not need “common truths”.
3. When doing investigations, try to catch at a non-conventional phenomenon in Nature that is normally taken for granted being not subject to discussion. Then substantiate this phenomenon by knowledge acquired in other fields of natural science.
4. The most productive field of knowledge is the one that at first sight seems to you dull, useless or devoid of sense. After you have cracked this nut you find yourself in another odd, tedious, inconvenient and uncomfortable situation that needs further learning. Clench your teeth and continue working to acquire another portion of knowledge and then further into infinity.
5. Many “scientists” and “experts” have been brought up on theories and hypotheses that do not work in Nature, no matter how “beautiful” they may seem such theories were simply drilled into them; they do not exist physically and are beyond understanding. Such “experts” cannot be your competitors. Do not start an argument with them, they will only wear you out. You should be above them.
6. Luck is something that makes prepared and daring Mankind saddle a passing wave of Structurization InfEnergy of the Universe during its lifetime. The next wave for Mankind will come much later... No time to catch...

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