



No review (in the author's interpretation)

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SPACE MECHANISMS AS THE ELEMENTS OF LIFE AND REHABILITATION TECHNOLOGY

(ІНФОРМАЦІЯ 1)

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The article "Elements of Life" offers a hypothesis about the relationship of the phenomenon of traditional Chinese medicine with the physical laws. It shows the principle of forming a sequence of daily activity of the acupuncture meridians as a consequence of the Doppler effect in the process of flowing around the planet Earth by cosmic wind (by Aether). In accordance with this specification the daily structure of meridians had been built. It is suggested that the essence of the Chinese Qi (Chi) are vibrations of a certain range in the medium. Consequently, it became possible to set the interrelation of frequencies of the visible spectrum with certain meridians. It is shown that the topological relationship of ancient (barrier) points of the Five Elements (Wu-Shu points) are associated with the wave lengths of the so-called Qi. It is shown also that the essence of the Wu-Xing law is based on daily circulation patterns of meridians. The examples of the surrounding world, including pulses processes in the human body, are confirming the above mentioned theses. A correlation diagram between the main elements of Dr. Samohotsky A.S. (dissertation "The experience of the definition of medical laws", 1946) and the Five Elements of traditional Chinese philosophy is established. The above represented hypotheses are yet introduced in practice in form of pulse spectral analysis system.

Key words: complementary medicine, acupuncture, reflexotherapy.

Стаття "Елементи Життя" пропонує гіпотезу про зв'язок феномену Традиційної китайської медицини з фізичними законами. Показаний принцип формування добової послідовності активності акупунктурних меридіанів як наслідок Доплерівського ефекту в процесі обтікання планети Земля потоком космічного вітру (ефіру). Відповідно до цього зроблено уточнення добової структури меридіанів. Висловлено припущення про суть китайської Ці (Чи) як коливання середовища певного спектру. Відповідно, встановлений зв'язок спектрів видимого світла з певними меридіанами. Показана топологічна залежність античних (бар'єрних) точок (У-Шу) від довжини хвилі так званої Ці. Показана суть закону У-сін на основі структури добової циркуляції меридіанів. Дані приклади з навколишнього світу, у тому числі і пульсовими процесами в організмі людини, що підтверджують висловлені тези. Запропонована схема кореляції між головними елементами доктора А.С.Самохоцького (дисертація "Досвід визначення лікувальних закономірностей", 1946 р.) і елементами китайської традиційної філософії. Гіпотези, що викладаються, реалізовані практично в системі пульсового спектрального аналізу.

Ключові слова: комплементарна медицина, акупунктура, рефлексотерапія.

Статья «Элементы Жизни» предлагает гипотезу о связи феномена Традиционной китайской медицины с физическими законами. Показан принцип формирования суточной последовательности активности акупунктурных меридианов как следствие Доплеровского эффекта в процессе обтекания планеты Земля потоком космического ветра (эфира). В соответствии с этим сделано уточнение суточной структуры меридианов. Высказано предположение о сущности китайской Ци (Чи) как колебаниях среды определенного спектра. Соответственно, установлена связь спектров видимого света с определенными меридианами. Показана топологическая зависимость античных (барьерных) точек (У-Шу) от длины волны так называемой Ци. Показана суть закона У-син на основе структуры суточной циркуляции меридианов. Даны примеры из окружающего мира, в том числе и пульсовыми процессами в организме человека, подтверждающие высказываемые тезисы. Предложена схема корреляции между главными элементами доктора А.С. Самохоцького (диссертация «Опыт определения лечебных закономерностей», 1946 г.) и элементами китайской традиционной философии. Излагаемые гипотезы реализованы практически в системе пульсового спектрального анализа.

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Introduction

The article "Elements of Life" offers a hypothesis about the relationship of the phenomenon of traditional Chinese medicine with the physical laws. It shows the principle of forming a sequence of daily activity of the acupuncture meridians as a consequence of the Doppler effect in the process of flowing around the planet Earth by cosmic wind (by Aether). In accordance with this specification the daily structure of meridians had been built. It is suggested that the essence of the Chinese Qi (Chi) are vibrations of a certain

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Modern official medicine is in crisis - this fact is known for a long time to many professionals. The huge amount of knowledge about the processes in the living body is accumulated, but our centenarians live for as long as thousands of years ago. There are still incurable diseases that kill even representatives of medicine at the same way just like ordinary folk.

Researchers in medical science resemble a flea on an elephant's body. Each flea examines some minor detail and pays almost no attention to what the others are doing around. It is doubtful that such quantitative approaches can be transformed into quality. Even trillions of fleas on the elephant will not be able to understand what they are dealing in a whole with.

It is required a different approach, allowing to change the perspective of the study view arbitrarily, in accordance with the current needs either to observe the elephant as a whole system, or as a part, or microscopically in a local order, as it is occurring now days.

This article is the result of a rather long reflection and research in area of pulse spectral analysis, searching for the supporting evidence of models and ideas. Briefly, now facts clearly indicate the absolute dependence of life processes on Earth from cosmic events and it can be explained by the theories of old Physics of 19-th century.

Primary elements of physics: Space and its contents

Catching up solving a mystery of the life it is impossible to ignore such science as physics (from the ancient Greek φύσις - nature). In fact, we have to study the properties of the Universe (Cosmos) - the largest (unlimited size) object we can image, which itself includes everything that exists. The recognition of the existence of such object, which includes most everything that can exist, is a contradictory statement. Indeed - where is the Cosmos itself is located?

In addition, the vastness of Cosmos is difficult to grasp. The whole experience of life suggests that everything has its limits, that any event here has always a beginning and an end. However, to achieve practical results that will help us to improve the life, we can accept the postulate of the infinitude of Cosmos, and put this principle to the base of our theory. After all, if we compare the size of our earthly world with the scale of the cosmos, from a practical point of view, the immensity of space should be allowed.

And, certainly, our theories we have to check by practice.

Further, in terms of research methodology, we rely on the principle of "Occam's Razor" - to explain the phenomena and events of Nature must be used a minimum of objects and rules. This methodological approach is fully in line with the natural principle of least action. In nature always wins the process that in order to achieve

maximum results will spend a minimum of energy. In other words - it's principle of optimum - the principle of the necessity and sufficiency - the water always flows to the direction where it is easier to flow, nobody will scratch his (her) right ear with left hand with no reason, and so on.

Any study and any science are based on certain number of axioms and postulates - statements that do not require proof. In our study, we use the postulate of genius Rene Descartes that the universe is filled with matter which, due to some initial motion, has settled down into a system of vortices which carry the sun, the stars, the planets and comets in their paths [1].

Descartes postulate fully comply with the principle of "Occam's Razor", because it contains only two components which are composition of all things.

These two components are the scene - Cosmos, and the actor - Aether on the stage. With the help of this scene and actor the Nature is playing the whole Cosmic grand spectacle which is represented in the smallest details of vast multiplicity of processes and phenomena. The presence of only two above mentioned components of all things is completely analogous to the semantic concepts of Yin and Yang of Oriental philosophy. In our case we can name Cosmos (Space) as a Yang (the Form) which is filled with Yin - Aether (the Content).

Properties of the Space

Space, as a measure of length has two fundamental properties:

The first property of the Space - it has three-dimensional measurements - via the intersection of two perpendicular lines, you can draw only one single line that is perpendicular to the both intersecting lines. It means that at any number of operating forces near the given point of intersection of 3 lines can be reduced just to three mutually perpendicular INDEPENDENT forces.

The three-dimensional measurement of the Space is reflected in the physical phenomena, such as follow:

- The ancient Indian philosophy of the theory of the three doshas (Pita, Kapha, Vata) postulates the necessity and sufficiency of only three active principles in the human body;

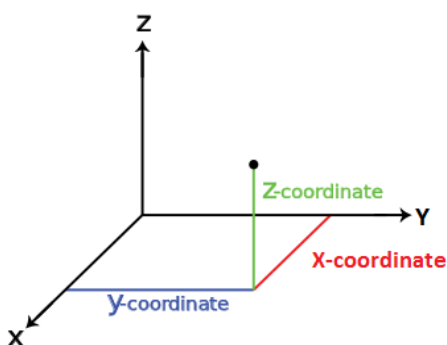


Fig. 1. Coordinate System of the Space. The center of the System can be any point of the Space, but if the point is selected it should be taken for all further calculation to save the continuity of the data.

- The result of the reaction of two chemicals will be different depending on the acidity status of the medium;

- The electromagnetic energy vector of Umov-Poynting is orthogonal to both the electric potential and the magnetic vector and so on.

With the help of three perpendicular lines intersecting at one point of the Space it is possible to specify uniquely the coordinates of any point by values the three distances from the point of intersection of three lines (the center of coordinates system) as orthogonal projections on the lines of system of coordinates (fig.1.).

The description of physical processes through the space of the other dimension has a specific character (zero, one and two-dimensional space). In case more higher than three

dimensions the description serves for calculation of some artificial mathematical models (four, five or more spaces) and up to our opinion it has no relations to real physical processes (in fact it is violation of “Occam’s Razor” principles).

The second property of the Space is isotropy - when the conditions for movement towards any direction of the Space are not dependent on the space itself.

Properties of the Aether

Aether, as a material substance consists of super small uniform particles, which have an absolute elasticity in collisions with each other and move at the same and constant speed. The Aether, as well as the Space, has two main characteristics:

The first peculiarity is due to the properties of the Aether's particles to interact elastically. It provides the endless moving and everlasting changes in the Universe, which was fixed in the great book of Chinese philosophy - the Book of Changes (I-Ching). That infinitude movement represents the Energy itself - the force of countless particles of the Aether has no restrictions in the Universe (against any force there is more powerful force). However, each particle of the Aether has equal and permanent speed in comparing with other particles. The speed of the sole particle of the Aether is a single quant of Energy in our Universe. Exactly this peculiarity of the Aether gives the opportunity to physicists to create quantum theories.

During the equal period of time, all particles of the Aether proceed the same distance. It means that the time has similarity to the Space - from the one hand time can be estimated by measuring of the traveled distance and from the other hand the distance may be predicted by the measuring of the time. It is obvious that this property of Aether in the Space was used by the famous mathematician Hermann Minkowski to create the theory of a pseudo-Euclidean space, where the time is the fourth dimension (The Minkowski space is the base of Einstein's relativity theory [2]). However, up to the opinion of the Author of this study, no real physical processes have relations to the Minkowski's space and it is only a method to record the trajectory of the objects in three dimensional space over the time (Fig.2). The Time phenomenon is a consequence of properties of the uniform motion of the Aether's particles and there fore - it is dependent on the parameter of the Space.

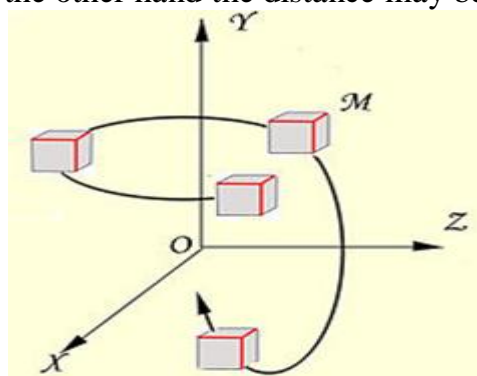


Fig. 2. The set of points on the trajectory is the Minkowski's Space. Possibly the Minkowski's Space was introduced to hide the common sense.

That is actually the Space contains Time and therefore the Time itself can not play a role of the axis of coordinate in principle. It is only value of distance has the matter. For a definite size its own time will flow. There is no practical reason to measure processes of Galactic motion by scale of life term of Drosophila fly.

The second property of the Aether is non-uniform distribution of particles in the Space [3]. There are constantly changing sizes of the regions with high and low density of Aether's particles. Irregular distribution of the Aether in the Space generates Space anisotropy. The theory of relativity postulating the isotropy of medium (where the speed of light is declared as a constant) has rather weak relations with true reality (Fig. 3).

The more particles are placed per a unit of volume, there is higher pressure of the Aether (the number of collisions between particles increases), and the higher energy level



Fig.3. Stars sky shows visually the inequality distribution of Energy - Matter in the Space.

has a place (the amount of motion also rises).

From this point of view - Black hole - is such a region of the Space where many motion vectors are spontaneously directed towards a single point. When the maximum concentration of particles will be achieved, the Aether's particles under the influence of the predominance of the elastic forces start moving to the regions with low density of the particles.

Aether sparseness occurs in the Space, the pressure is reduced. During the time local micro spaces with more or less equal distribution of density, can spontaneously form

rectangular lattices of flashing nodes (nodes have permanent regular changes of density of the Aether).

This type of construction of the crystal lattice is the most natural for the three-dimensional space (significant inequality in the Space will lead to other types of crystal lattices reflecting the shape of irregularity). The distance between the nodes of a rectangular lattice will depend on the average density of the Aether in given area of the Space (Fig. 4.).

The measure of the Aether density is determined by the average distance between particles at given volume of the Space. For the neighborhood of the Earth's surface, where the observation by terrestrial physics is possible, the mean range of the Aether particles before a collision with another particle is within the Planck's wave length and it is equal to $1,616199(97) \cdot 10^{-35}$ meter [4].

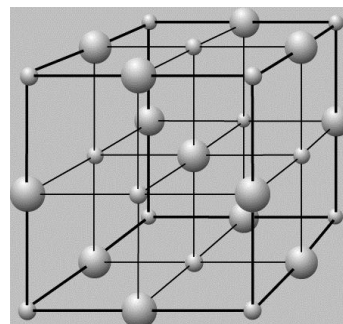


Fig. 4. Lattice with nodes high and low density. In a half of period of density oscillation large balls decrease to small but small become large.

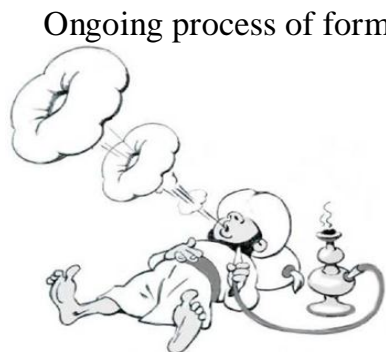


Fig. 5. The toroid formation process.

Ongoing process of formation and decay of black holes produces between them and the "white" holes laminar flows of the Aether. When two laminar flows are encountered, the wide varieties of sizes of Descartes vortices are created. The longest-lived type of the Aether vortex has form of toroid. As an example of the toroid formation is transmission of the smoke by smoker.

Everything is composed of toroids of different sizes - from elementary particles, electrons, atoms to planets, stars and galactic areas. As they say - all products are from the same cloth.

Influence of the Aether of different density at the biochemical reactions

While the concentration of the Aether particle is increased in the Space, the process of formation of regular structure starts automatically. Upon reaching high density, the Aether always consists of a crystalline structure (section 3 in Fig. 6) which ensures maximum accommodation number of particles at given volume.

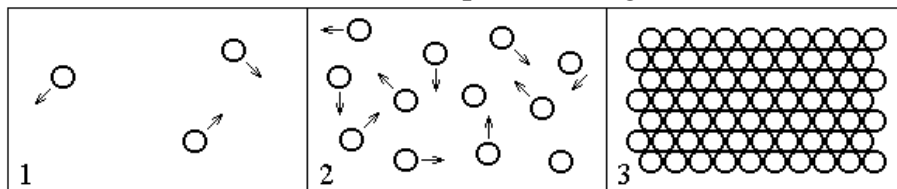


Fig. 6. Compaction of the Aether particles.

Hypothetically, the Space has a certain average density of ether particles. This is so-called zero energy level in Universe. The volume with an excess of the Aethereal particles creates excess energy potential, which always seeks ways to neutralize the area with deficiency of particles.

If we focus our attention on the level of atoms of chemical elements, we should learn their base element - proton. It is suggested the proton is accelerating vortex of definite size. Due to centrifugal effect acceleration causes low inner compression of Aether and vortexes exist as a point with permanent tendency to absorb the Aether to compensate deficiency of pressure.

There are also vortexes with inhibition of their rotation. In this case such vortexes are in process of decay due to necessity to emanate the excessive portion of the Aether. It is suggested the decaying vortexes are electrons (possibly it is decayed vortex of proton).

These above described processes form flows of the Aether from electrons towards protons - the suction force come into existence. When the electron approaches the proton vortex, the centrifugal forces compensate the force of the suction and electron is stabilizing at definite orbit around the proton.

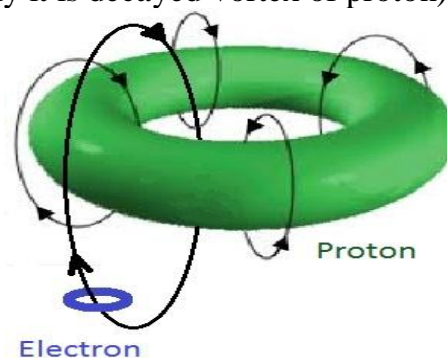


Fig.7. Possible model of the hydrogen. Black lines are flows of the Aether and inside this flow there is electron.

The suction forces of atoms of chemical elements are determined by the electro negativity factor. This factor indicates - how many electrons must be attracted to atom to reach the neutral condition in comparing with the Aether's surroundings. The higher imbalance of the Aether density causes the more powerful reactivity of chemical elements. At last, let's go to see how all above described processes made their influences at the living organisms.

Deficiency or excess of electrons in the volume of the body affects the parameters of the redox potential and acid-base balance (the importance of these parameters in metabolism is generally accepted and recognized). At the case of deficiency of electrons at the given volume, Fluorine, Oxygen or Chlorine are capable to detach them from any substrate in the body. It is dramatically increasing the rate of free radical oxidation to such an intensity that instead of carbohydrates and fats the protein structures will "burn", causing irreversible damage to normal cells. That is why an excess of oxidative processes can be suppressed by the aeration by Chizhevsky's chandelier or by grounding the foot.

If there is an excess of electrons at medium, electro negativity of halogens and oxygen will be compensated and the body at the expense of previously stored energy will initiate the restoration of cellular structures.

Understanding the crucial role of the electrons in the body we can estimate the effect of metabolic changes at different density of the Aether concentration in the Space:

- ***The density of the Aether is increased.*** Protons received additional rotation impetus to accelerate the process of capturing of the Aether to compensate the increased pressure. At the same time, the Aether inflow expels electrons (electrons themselves emit Aether), the quantitative equilibrium is shifted toward the predominance of protons and, accordingly - the medium becomes acidified. The activity of the chemical elements - oxidizers (oxygen, fluorine, and chlorine) is sharply enhanced. It means the phase of the Aether excess pressure corresponds to the processes of catabolism - burning of nutrient substrate for energy that is required for the body and partially is saved for future needs.

Metabolism is closely associated with weather condition - when there is good shiny condition - the Aether pressure is high, all living organisms feel excess of vital energy and spend an active life.

- **The density of the Aether is dropped.** At the reduced pressure the proton vortices begin to slow down and give up electrons easily. The volume freed by the Aether, replaced by free electrons and light molecules. The medium become alkaline. Free electrons compensate the action of halogens and oxygen. Reduced rate of oxidative processes activate recovery processes, the energy saved at previous catabolic phase is taken to cover

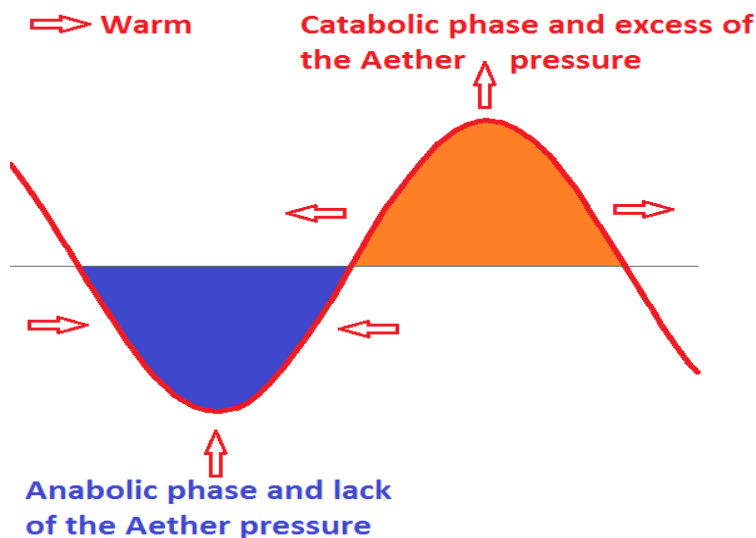


Fig. 8. Rotation of metabolic phases goes synchronically with changes of the Aether's pressure in the environment.

er recovery needs. The low density of the Aether accompanies the bad rainy weather - the medium is filled with molecules and electrons (in the atmosphere the water molecules predominant). All living organisms usually try to conduct less active lifestyle.

Thus, the regular, periodic change in the density of the Aether in space creates the conditions for the flow of metabolic processes in living organisms in the form of a permanent sequence anabolic-catabolic phases (Fig. 8).

At biophysical level the Aether's pressure fluctuations are reflected at living organism in from of changes of geometric dimensions of the structures of the body. Volumes of fluids, blood, cells, compartments and other smaller hierarchical structures down to separate conglomerates of molecules change their sizes cyclically. These changes are accompanied by regular oscillations of medium acidity and redox potential (absence of pH and redox potential oscillation means death). Due to the fact that 60-80% of the body consists of the water, there are cyclical transient processes of liquids in structures of organism between conditions of gel and sol [5].

Sol phase corresponds to the alkaline shift of pH of liquid at a high pressure of the Aether and on the background of electrons deficiency when geometric size of molecules in the space is decreased. Such condition inside cells accompanies active catabolic processes when the cell preparing to contraction and produce DNA replication.

Gel phase is accompanied with elevation of acidity in liquids, there is the deficiency of Aether pressure and excess of electrons, geometric size molecules is increased. The transition to this phase is determined by of active physical contraction and utilization of substrates stored at previous Sol phase. During gel phase the cell actively absorbs oxygen and produce anabolic work.

A living organism differs from non-living object by existence of free volition. The volition gives the opportunity for living organism to initiate catabolic processes at any period independently of the Aether pressure (certainly, catabolic work will be less effective at anabolic period with low density of Aether pressure). The free will allows to the living organism move, search for food or escape from the danger at the time, when it is required

for vital needs and survival. The accumulation of such energy is made through the use of microscopic cycles of cellular metabolism, stimulated by the vibrations of the Aether pressure. This process is similar to using the appliance for charging. For example, the efficiency of energy converting of the Aether vibrations in muscle cells of flea is so high that when the compressed protein resilin is released, the accumulated tension develops in the jump the acceleration up to 100G (even astronauts are experiencing acceleration just 3-4 G).

The life is impossible without vibration of the Aether pressure. Even just changing the spectrum of the vibration during traveling far from the surface of the Earth (at the cosmic orbit or in mine) serious health problems develop. It means our genetic vibration profile is adapted to exist exactly at the Earth surface

Living organism is similar to the Cosmos (Fig. 9):

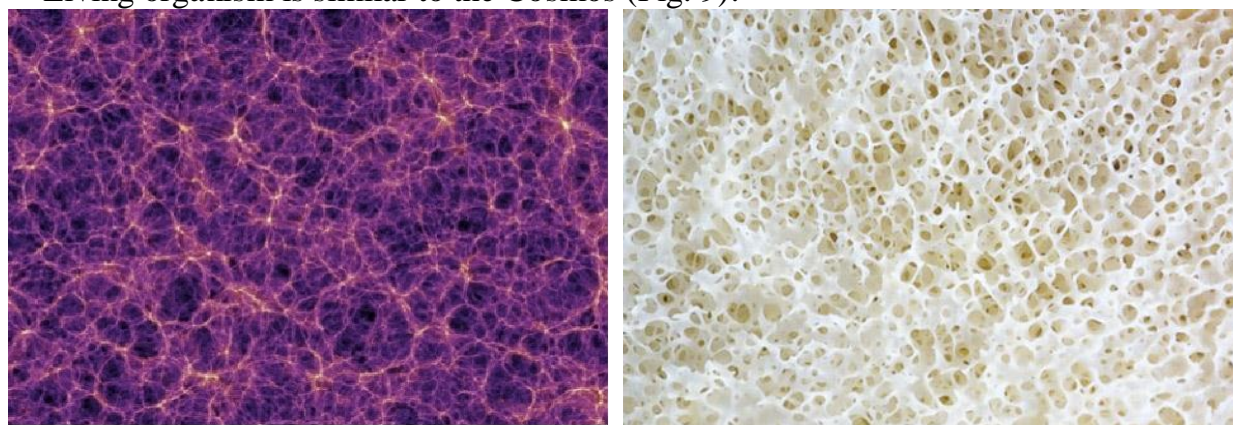


Fig. 9. The similarity of the Space and human structures is amazing: at the left side there is result of Universe modeling made in Max Planck Institute for Astrophysics and at the right side there is the photo of human bone.

Origin of the Primary Elements of Traditional Chinese Medicine (TCM). Daily cycle of the Elements sequence

The most important biorhythm, which generates almost all of metabolic cycles of every living creature on the Earth, is the circadian (daily) rhythm. This is the natural rhythm of the cosmic process of interaction between two streams of the Aether in the Space,

which spawned the swirling motion of the Earth planet with rotation period of one revolution in 23 hours, 56 minutes and 4 seconds. Let us investigate the mechanism of the formation of the circadian biorhythms.

Fig.10 shows two essential vectors that form the vortex of the Earth and keep it in a state of equilibrium on the orbit. Points of action of essential vectors coincide with the Earth's sectors when there is period of activity of the Fire Minister meridians in TCM. The Fire-Minister Element has specific place in the theory of the Five Elements.

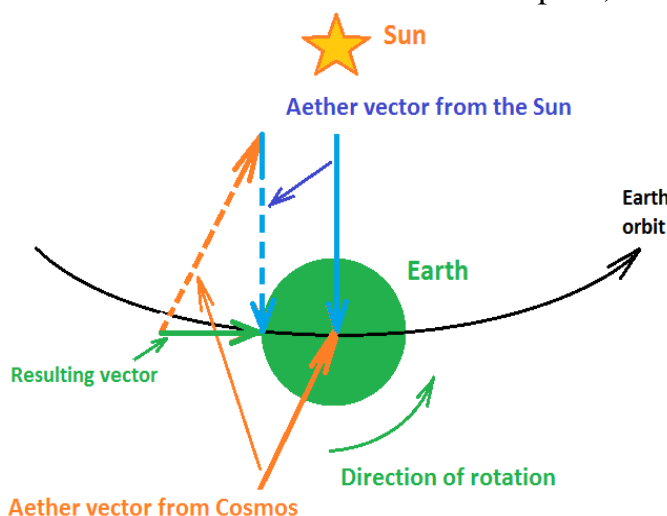


Fig.10. Two Aether vectors forms rotation of the Earth and produce impellent orbital

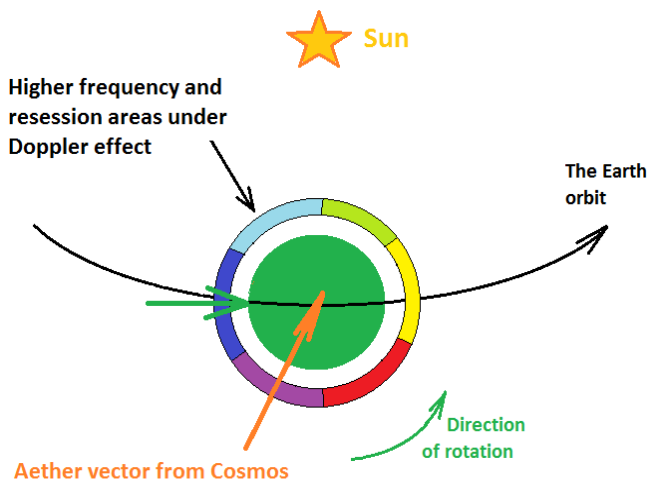


Fig. 11. Disposition of vibration at the associated stream of the Aether under action of the vector from the Cosmos.

Precisely the same mechanism generates Doppler Aether clouds around the Earth under action of the Aether flow from the Sun (Fig. 12.).

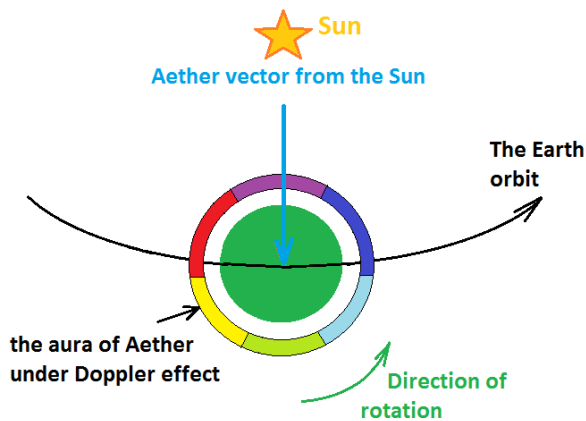


Fig.12. Doppler Effect under the Aether vector from the Sun.

There is the stream of the Aether around the Earth in sync rotation associated with the physical surface of the planet. This association is the same type like a boundary layer of water moving together with a ship's hull. The interaction between the Aether vector from Cosmos and Aether stream associated to the Earth's surface generates areas with different vibrations based on the Doppler Effect. When the two flows encounter (blue and turquoise area), they form a higher frequency area than at the recession frequency part (yellow and red areas in Fig. 11):

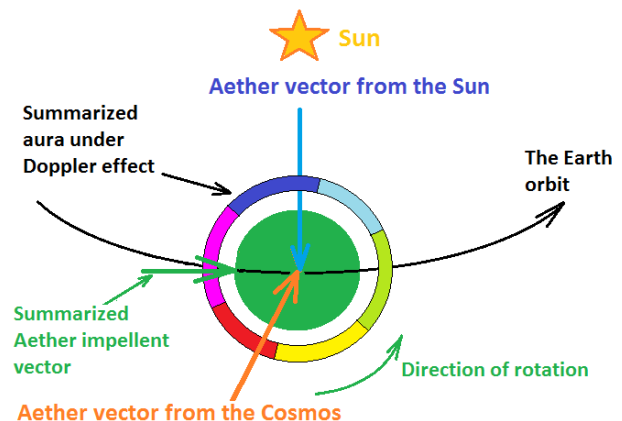


Fig. 13. Summarized Aether aura under action of summarized Aether impellent vector.

The combined effect of the two almost opposite flows of the Aether in space forms the Earth's rotating vortex and the impellent orbital vector which is produced by a geometric sum of two main vectors. Under the influence of orbital vector of the Aether summarized Doppler clouds are produced.

At the Fig. 13 we can observe changes in the wavelength of vibrations from the longest (Red) to the shortest (Purple).

Now let's study the designs of traditional Chinese philosophy - the one of the main conception - the theory of the Five Elements. In particular, we are interested in the scheme of corresponding of symbols of trigrams with the Primary Elements. Below the diagram of such correspondences is represented [6] (Fig. 14).



Fig. 14. Scheme of correlation between the Primary Five elements and trigrams. Where we have: E – Earth, Wt – Water, Wd – Wood, FM – Fire-Minister, F – Fire, M – Metal.

Further in text, we'll use the following names and abbreviations for the Primary elements and meridians in a daily circulation:

Wood Element: - Yin Wood - Liver - LR; - Yang Wood - Gall Bladder - GB; Fire Element: - Yin Fire - Heart - HT; - Yang Fire - Small intestine - SI; Earth Element: - Yin Earth - Spleen - SP; - Yang Earth - Stomach - ST; Metal Element: - Yin Metal - Lungs - LU; - Yang Metal - Large Intestine - LI; Water Element; - Yin Water - Kidneys - KI; - Yang Waters - Urinary Bladder - BL; Fire-Minister Element: - Yin Fire - Minister - Pericardium - PC; - Yang Fire - Minister - Triple Energizer (Blood) – TE

Let's return to our trigrams. We suspect (as Leibniz did) that trigrams are simply binary numbers. Then we'll apply to the each trigram the number, which is obtained with help the trigram reading rule in Chinese philosophy from bottom to up. When trigrams are placed in the order of increasing of numerical values, the traditional sequence of Primary Elements will appear from the right to left by rule of mutual birth - Wood gives rise to Fire, Fire gives rise to Earth, Earth gives rise to Metal, Metal gives rise to Water gives rise to Fire-Minister. If we make assumption that numeric value of trigrams may be associated with color the following figure have the right to exist (Fig.15).

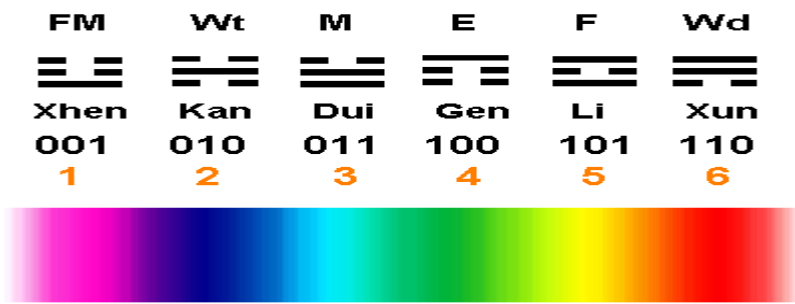


Fig.15 Correspondence of the Five Elements with the solar spectrum.

Special place of the Fire-Minister in Chinese philosophy obviously is defined as an Element linking two cycles in sequence of elements.

The association of numerical values of trigrams, Elements the solar spectrum wavelengths allows us to have information about the true color of Chinese Elements and understand this part of information from Chinese philosophy like vibrations of a certain frequencies. And certainly we consider these vibrations as the Aether density oscillation. The Aether itself plays a role of pneuma, which birth "ten thousands of entities" in Chinese philosophical paradigm.

The represented idea is rather fresh in interpretation of phenomena of Chinese philosophy. Nowhere is possible to find the information regarding the origin of the color of the Five Elements. It is suspected, that widely known correlation is wrong and it's happened due or to deliberate distortion, or we are witnessing the degradation of ancient high-tech knowledge.

We assume that the flow of energy transiting via the order of mutual birth of Elements in the direction from Wood to the Fire Minister Element - from longer wavelengths to short one in the physical world corresponds to the process of the Aether pressure increasing at our local Space. This position is consistent with the physical theories of vortex gravitation [7], where gravity is a derivative of the Aether drift to the centers of planets and stars. In accordance with this theory, we live in an ever-shrinking world. The results of the space shrinking are the physical effects of the "red shift" and "recession of galaxies" - all exactly as if we were on the spot of decreasing Alice in Wonderland by Lewis Carroll and observed an increase of all things around from point of view of geometric sizes.

Further, we made substituting the names of the corresponding Elements by names of Yin meridians in acupuncture theory of traditional Chinese medicine. The choice of the Yin meridians made for the reason that they are called structural, form the basis of life of the organism (Fig.16).

PC KI LU SP HT LR



Fig.16 Color of structural (Yin) meridians.

Knowing that there are two Aether acting vectors and their activity periods in the daily circulation, taking into account the order of colors at Doppler's effect of vectors, we have generated the full scheme of meridians and Five Elements circulation (Fig. 17).

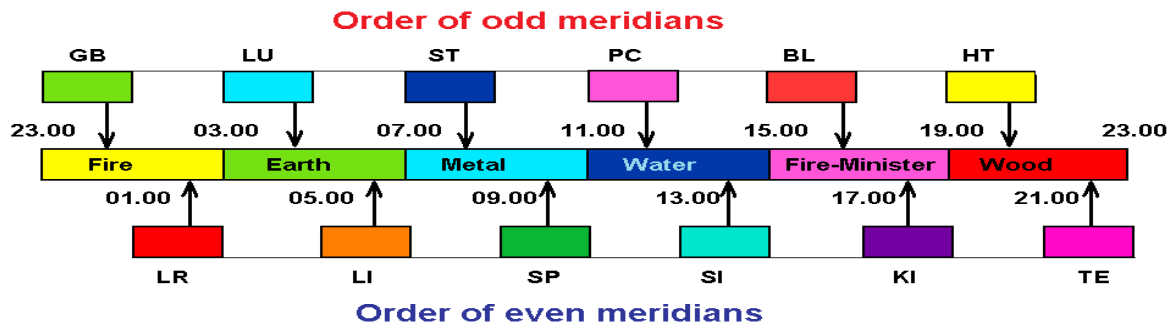
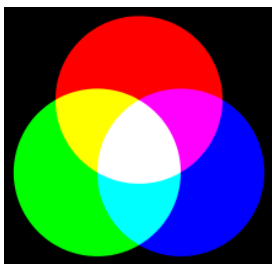
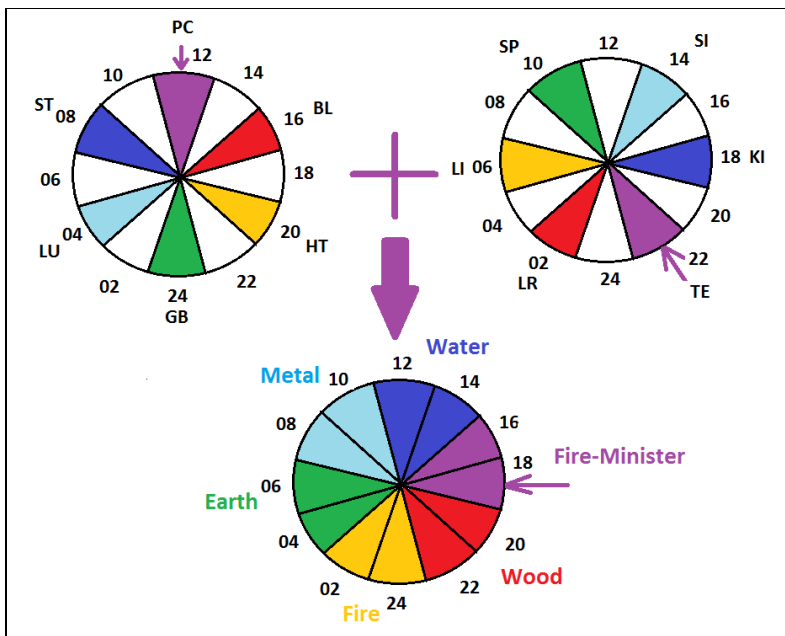


Fig. 17. The color scheme of daily activity of 12 main acupuncture meridians (odd meridians - centrifugal even meridians - centripetal)



It was found that colors of the Five Elements were the result of a superposition of color components of acupuncture meridians by the rule of colors synthesis in the visible spectrum (Fig. 18).

Fig. 18. The Scheme of the color synthesis. Green + Red = Yellow Turquoise + Yellow = Green Blue + Green = Turquoise Purple + Turquoise = Blue Red + Blue = Purple Yellow + Purple = Red



As you can see, each meridian corresponds to certain frequency of vibration and, accordingly, these frequencies are initiated by the process of the daily rotation of the Earth. It is the sole reason of circadian rhythms of metabolic processes in living organisms. There are colors and meridians associations (Fig.19).

Fig. 19. Here is the color model of daily circulation is represented in form of wheels, where there are 2 systems of meridians - (odd meridians - centrifugal (left) even meridians - centripetal (right)).

- The Red color corresponds to the work of the Liver (LR) and Urinary Bladder (BL),
- Yellow - Heart (HT) and Large Intestine (LI),
- Green - Pancreas (SP) and Gall Bladder (GB),
- Blue - Lungs (LU) and Small Intestine (SI),
- Blue - Kidney (KI) and Stomach (ST),
- Purple - Pericardium (PC) and Blood (Triple Heater - TE).

In contrast with the conventional scheme of meridians activity from the traditional Chinese medicine, in our scheme Meridian Yin Fire-Minister (Pericardium) is actually active at the period from 11 a.m. to 01 p.m. due to following reasons:

Firstly – It has special place between elements of Chinese philosophy;

Second - from the physical point of view, the time and place the corresponding astronomical noon is the application of force of Aether flow from the center of the solar system according to the model of the Doppler's effect forming vibration activity acupuncture meridians;

Third - thanks to the hierarchy of frequencies on the length of their waves wavelength pericardium meridian should be shorter than the length of the meridian of the Heart. This is confirmed by the topology of the location of the meridians on the body - the true pericardium meridian ends at the end of the little finger of the hand, which naturally shorter than the end of the middle finger - the end of the true meridian Heart that says just that messed up only the name of the meridians in order of daily circulation, but the true position of the meridians in a daily circulation of activity remained.

All 12 types of vibration are acting simultaneously in the body, but each one prevails at proper period of daily circulation. In spite of living situation of organism, the circadian rhythm provides the regular changes via the Aether pressure which creates rhythms of anabolic and catabolic processes for each cell. If the rhythms for some reason out of sync - the energy base of anabolic-catabolic phases circulation disappear. Cell falls out of general metabolic stream and dies. Aging is a growing number of dying cells due to a mismatch with rhythms of the Aether medium. Only these rhythms are free and infinite supplier of energy to create a vibration of vitality.

Association of vibrations of meridians with the energy of 6 Qi.

Let's move on to the study of correlation of acupoints to the Primary Elements (at different sources, they are called as transporting (Wu-Shu, Ancient, Barrier) points.

We find that on the Yin meridians Wind Qi points (Wood element), are at the greatest distance from the center of the body (it is suggested as a center of vibrations). Qi points of other Elements are located more close to the center of the vibration in order of decreasing of their wave length by order of mutual birth in the Wu-Xing cycle (Heat, Damp, Wind, Dryness, Cold). Points at Yang meridians are also situated in the order of generation in the direction toward the center of vibration, but they starts with the Dryness Qi point (Metal Element) and it indicates the shift between metabolic cycles of Yin and Yang meridians.

It is clear that the wavelength of points at equal distance from the center of vibrations can not differ significantly. Therefore, for further analysis, it was decided to appoint to points of Yang meridians similar colors, if they are placed at similar distance from the center of vibrations.

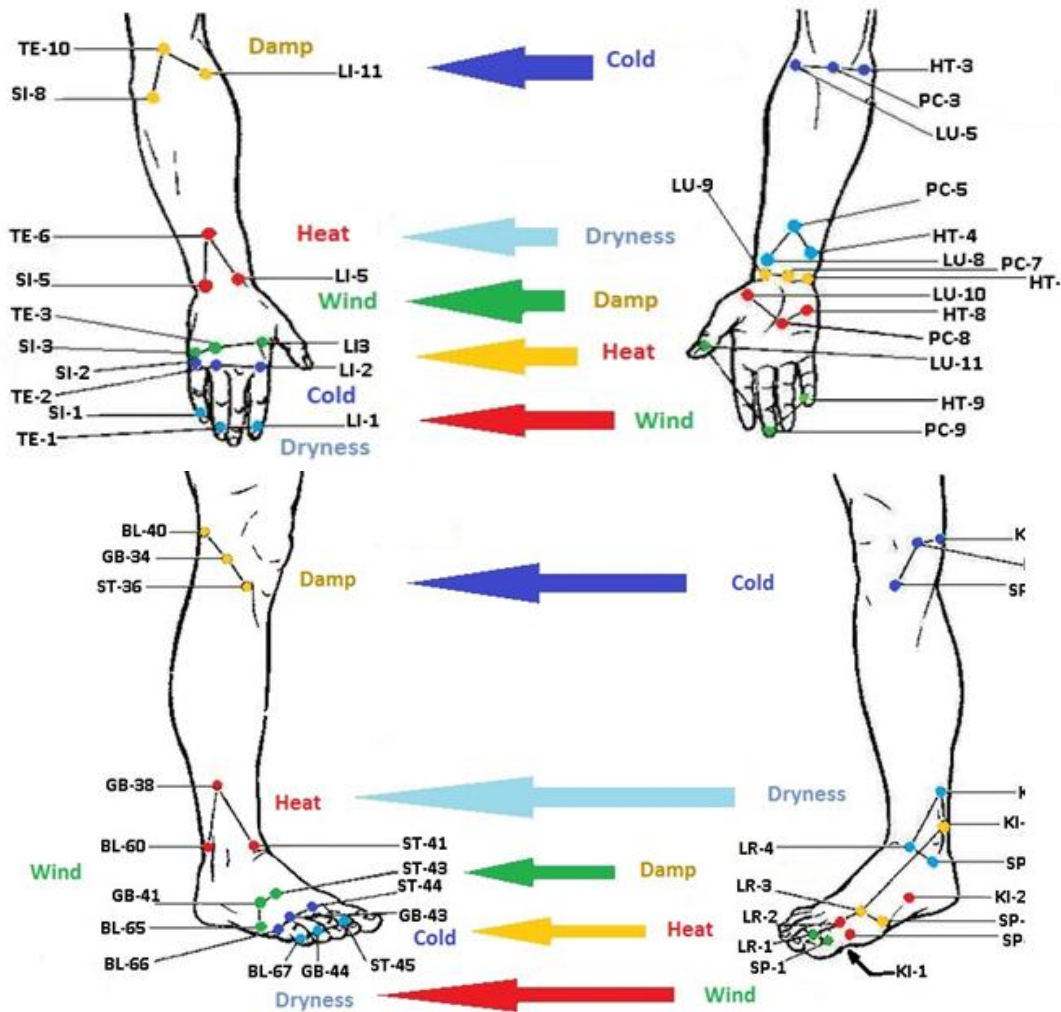


Fig. 20. Comparing vibration between points of Yin and Yang meridians.

Please note the points of Heart and Pericardium meridians are shown here at traditional order, but in accordance with our conclusions names of above mentioned meridians should be changed. The arguments in favor of renaming are presented above in this article.

In the light of above mentioned suggestions let's try to establish the correlation between 60 Wu-Shu points and frequencies of meridians and Elements (Fig. 19).

For this aim we will use the Wu-Xing law of mutual interrelations between meridians inside of Odd or Even system. If we stand on the point of some meridians ("I'm") and activate it, the next meridians will be tonyfied (Son), the second will be suppressed (Friend), with the third there will be mutual balance (wife – the acupuncture rule "Noon-Midnight"), the fourth meridian will suppress "I'm" (Grandfather, Enemy), the fifth meridian will activate "I'm" (Mother), Fig. 21.

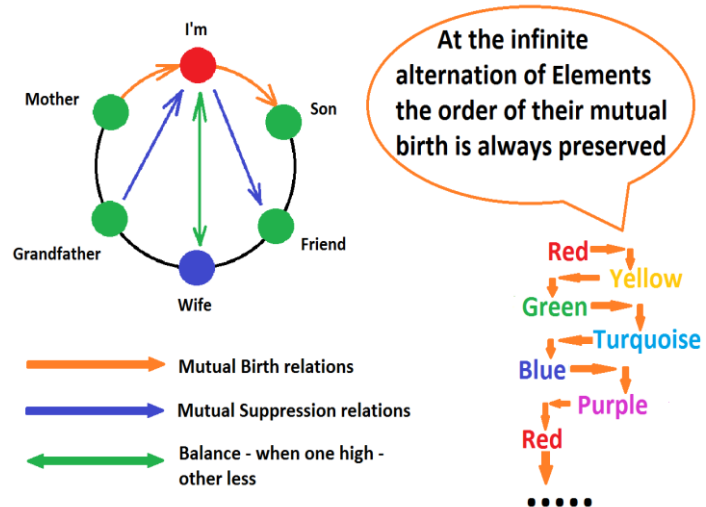


Fig. 21. Wu-Xing scheme – (Five types of interrelations between vibrations of Elements).

In Traditional Chinese medicine there is information what Wu-Shu acupuncture points are used to manage each of 12 main acupuncture meridians in accordance with above represented Wu-Xing law. Below in the Fig. 22 we have marked each point with proper colour in correlation with the associated Element and taking into account the Wu-Xing law of Elements interaction. In accordance with Wu-Xing law, tonification point is before the point of proper meridian (red and yellow arrows up) and sedation point is placed behind the given point (dark blue arrows down):

Meridians, Periods of activity	Points					
	Jing – Well	Ying – Spring	Jing – Well	Yuan	Jing – Well	He – Sea
Gall Bladder GB, 23-01	GB-44 BL 7.1 mm	GB-43 HT (↑) 5.6 mm	GB-41 GB 4.9 mm	GB-40	GB-38 LU (↓) 7.1 mm	GB-34 ST 5.6 mm
Liver LR, 01-03	LR-1 LR 7.1 mm	LR-2 LI (↓) 5.6 mm	LR-3 SP 4.9 mm		LR-4 KI 5.6 mm	LR-8 TE (↑) 4.9 mm
Lungs LU, 03-05	LU- 11 PC 4.9 mm	LU-10 HT 5.6 mm	LU-9 GB (↑) 4.9 mm		LU-8 LU 7.1 mm	LU-5 ST (↓) 5.6 mm
Large Intestine LI, 05-07	LI-1 LI 5.6 mm	LI-2 SP (↓) 4.9 mm	LI-3 SI 7.1 mm	LI-4	LI-5 TE 4.9 mm	LI-11 LR (↑) 7.1 mm
Stomach ST, 07-09	ST-45 PC (↓) 4.9 mm	ST-44 BL 7.1 mm	ST-43 GB 4.9 mm	ST-42	ST-41 LU (↑) 7.1 mm	ST-36 ST 5.6 mm
Spleen SP, 09-11	SP-1 LR 7.1 mm	SP-2 LI (↑) 5.6 mm	SP-3 SP 4.9 mm		SP-5 SI (↓) 7.1 mm	SP-9 KI 5.6 mm
Pericardium (It's point of Heart meridi- an in present interpre- tation) PC, 11-13	HT-9 ST (↑) 5.6 mm	HT-8 PC 4.9 mm	HT-7 BL (↓) 7.1 mm		HT-4 HT 5.6 mm	HT-3 LU 7.1 mm
Small Intestine SI, 13-15	SI-1 TE 4.9 mm	SI-2 LI 5.6 mm	SI-3 SP (↑) 4.9 mm	SI-4	SI-5 SI 7.1 mm	SI-8 KI (↓) 5.6 mm
Urinary Bladder BL, 15-17	BL-67 PC (↑) 4.9 mm	BL-66 BL 7.1 mm	BL-65 HT (↓) 5.6 mm	BL-64	BL-60 GB 4.9 mm	BL-40 ST 5.6 mm
Kidneys KI, 17-19	KI-1 TE (↓) 4.9 mm	KI-2 LR 7.1 mm	KI-3 SP 4.9 mm		KI-7 SI (↑) 7.1 mm	KI-10 KI 5.6 mm

Heart (It's points of Pericardium in traditional interpretation) HT, 19-21	PC-9 BL (↑) 7.1 mm	PC-8 HT 5.6 mm	PC-7 GB (↓) 4.9 mm		PC-5 LU 7.1 mm	PC-3 PC 4.9 mm
Triple Energizer TE, 21-23	TE-1 KI (↑) 5.6 mm	TE-2 TE 4.9 mm	TE-3 LR (↑) 7.1 mm	TE-4	TE-6 LI 5.6 mm	TE-10 SI (↓) 7.1 mm

Fig. 22. The table of correlation acupuncture points and colours

As far as we can see at Fig. 22, the colour of points is fluctuating in the table. It means that we have deal with dynamic process and each frequency due to external changes of Aether pressure has different wavelength in the space. More high Aether pressure causes shortening of wavelength and increases the velocity of Aether's wave in the space and vice-versa – low Aether pressure makes wavelength longer and decrease the velocity of wave's movement.

Analysis of Qi dynamics.

Let's analyze for example changes of wavelength of Yellow vibration during a day. The length of waves of Yellow vibrations at periods of activity at proper meridians will be counted in the table at Fig. 22 from the right side to the left one in order of increasing. The most right cell mean volume 1 (One – the shortest wavelength), the most left call indicates volume equal to 5 (Five – the most long wavelength). Volume for Odd and Even meridians are paired in accordance with dividing the daily cycle into 6 Elements as it is shown at Fig. 19 :

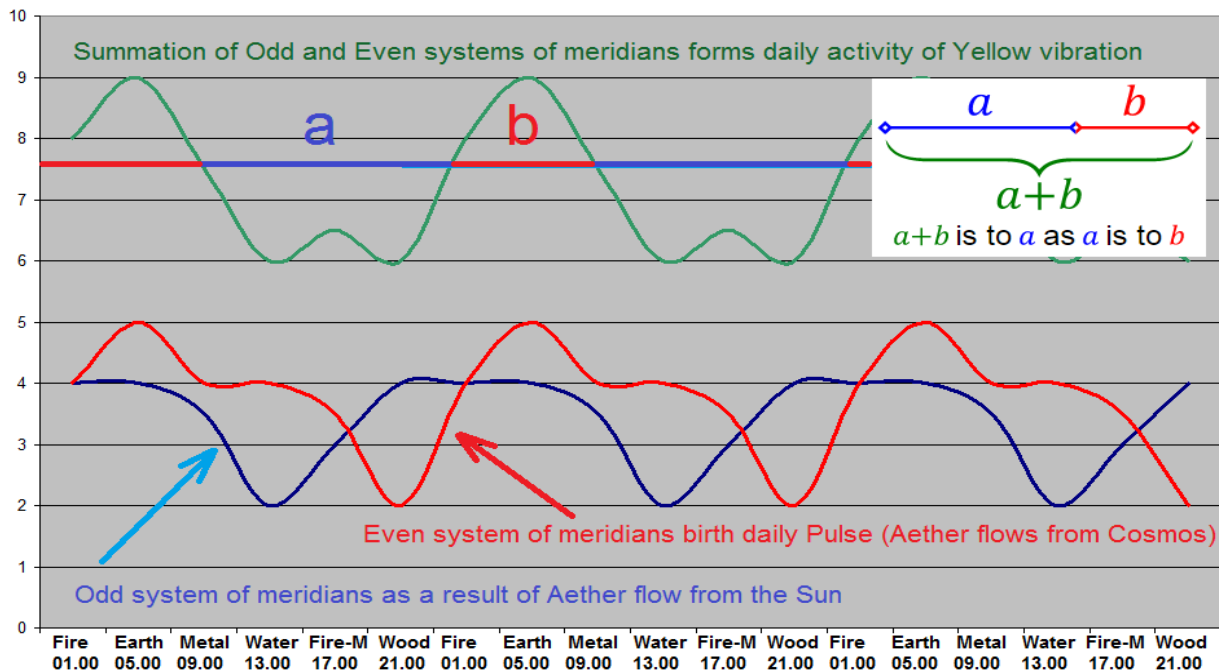


Fig.23 Qi dynamics - (odd me-ridians - centrifugal (left) even meridians - centripetal (right)).

As you can see at the Fig.23 the Even system of meridians (Triple energizer, Liver, Large Intestine, Spleen, Small Intestine, Kidneys) looks like pulse form at sphygmogram (Fig. 24):

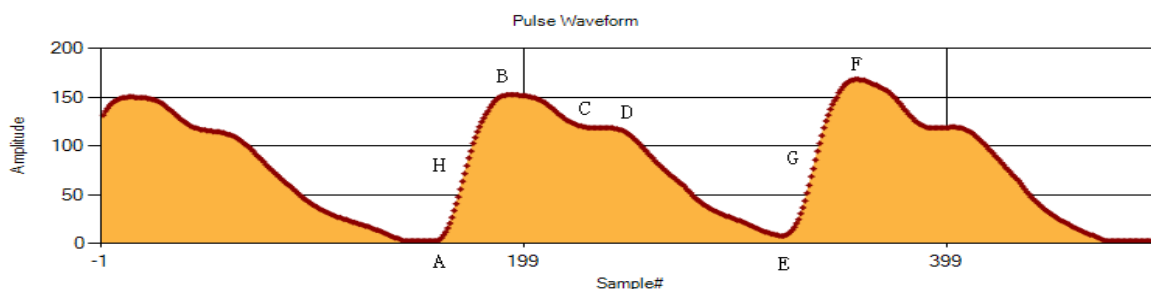


Fig.24 Pulse form at sphygmogram

The sum of wavelengths of Odd and Even systems of meridians (green line at Fig. 23) shows the dynamic character of wavelengths of Yellow vibrations during a day. These wavelengths are relatively longer at time of Fire and Earth elements activity (in accordance with structure at Fig. 19). This period lasts approximately from 23.00 to 07.00 hours (red “b” segment at Fig 24) and it is main daily anabolic phase for the organism when the efficiency of anabolic process is the most high.

Catabolic phase is stipulated by vibrations of more short wavelengths (there is more high presser of Aether) and this period take approximately period from 07.00 to 23.00 (blue segment “a” at the Fig.24).

It is interesting that proportion between catabolic and anabolic phases of daily pulsation is similar to the Golden Ratio.

By the way Golden ration in pulse was discovered by Dr. V. Tsvetkov in 1984:

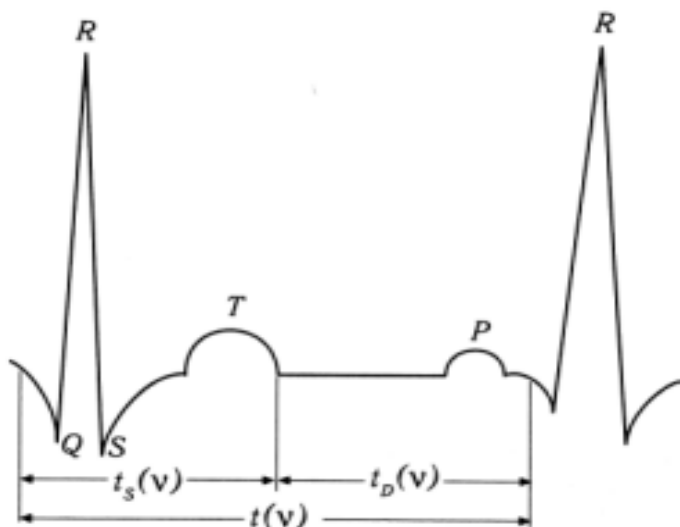


Fig.26 Pulse form of electrocardiogram

Where at Fig. 26 $t_p(V)/t_s(V)$ and $t_s(V)/t(V)$ are equal to 0.618.

Additional evidences of the Doppler principle in the Primary elements formation.

The fidelity of the Doppler model of the Primary Elements and meridians can be confirmed by three physical facts:

The first fact is that the frequency of the first Schumann resonance of the Earth is 7.83 Hertz, which resonates with the frequency of the middle of the visible solar spectrum, with the green area. In our model, the green color is associated with Yin Earth element (Spleen) and Yang Wind element (Gall Bladder): $7.83 \text{ Hz} = C / (\lambda * 246)$

Where: $C = 299\,792\,458 \text{ m/s}$ - the speed of light, $\lambda = 0,000000544 \text{ m}$ - wave length of the middle of green color of the visible solar spectrum, 2^{46} - factor of octave fractal.

As it is known in traditional Chinese philosophy, the Earth element has a special role. Around this element revolve the remaining four elements in the Wu-Xing scheme.

The second fact: In the lectures on the physics of the famous American scientist Richard Feynman, in Chapter 9, "Electricity in the Atmosphere," paragraph 1 "The electric potential gradient of the atmosphere" [9], there is daily graph as follow (Fig. 27).

Quote of the Feynman lecture:

«The current (in the atmosphere – note of the Author) varies by about ± 15 percent, and it is largest at 7:00 p.m. in London. The strange part of

the thing is that no matter where you measure the current—in the Atlantic Ocean, the Pacific Ocean, or the Arctic Ocean—it is at its peak value when the clocks in London say 7:00 p.m.! All over the world the current is at its maximum at 7:00 p.m. London time and it is at a minimum at 4:00 a.m. London time. In other words, it depends upon the absolute time on the earth, not upon the local time at the place of observation».

Now we can explain this fact, which seemed surprising to R. Feynman. The Doppler model of Elements has summarized vector of the Aether flow at 06 p.m. This vector moves the Earth alongside the orbit. Naturally the maximum of the Aether pressure will be formed at the point of application of the vector. Increased pressure of the Aether displaces electrons from the medium and increases medium resistance, increases the electrical potential between two vertical points in the atmosphere. Period of the wave of the Aether flow is one day with wave maximum at 19 Greenwich Mean Time. The shift between 06 p.m. in our model and 07 p.m. in real physical process indicates the fact that real meridian of Aether wave application on the planet is placed towards West from the London. And we have some amazing fact regarding this real zero meridian:

If we study the old map of Mercado in 1595, the zero meridian passes through the western part of Iceland (currently it has longitude $17^{\circ} 59' 12''$ W). The one hour of the Earth rotation relatively to the stellar coordinates consists 15 degrees, which actually corresponds to the arrival of the Aether wave at 18 p.m. of local astronomical time at Iceland and it is very corresponds with our models!

It is worth noting that his maps Mercado had built on the base of old sources, apparently left after the last civilization catastrophe in the 14th century AD.

It is known that the 14th century by the famous Austrian cultural historian Egon Friedell in his book "Kulturgeschichte der Neuzeit" [10] was name as "The Last Great Shock", after which originates the recent history of the survived mankind, beginning with the Renaissance. Apparently, the technical genius of the Renaissance period - Leonardo Da Vinci was based on a solid foundation technical knowledge of the former civilization. Even such minor fact as the setting the zero meridian, demonstrates that previous civilization was more powerful and advanced than ours. Old science knew about the Aether and relied on the natural process, considering it in their cartography, astronomy and obviously – medicine (TCM).

Third fact: It is in the same quote from Feynman lectures - the lowest electric potential is at 4 a.m. London time. If we change this time to the astronomical time of the correct zero meridian at Iceland, the true time is 5 a.m.. The 5 a.m. in our Doppler model

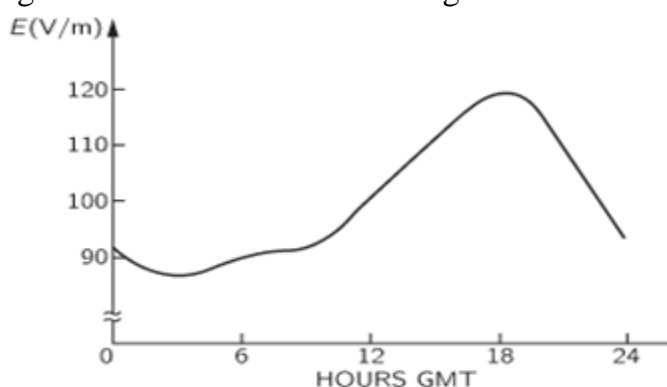


Fig.27 Daily graph of electric potential in the atmosphere of the Earth at London's time.

corresponds to the middle of Earth Element - the period when there is the low-pressure of the Aether, maximum reduction processes in the body (excess of electrons) - the maximum of Yin in Traditional Chinese Medicine.

Macroelements of Dr. Samokhotsky

Russian doctor Alexander Samokhotsky (1890-1986), a surgeon, in result of long experimental work found that almost any disease can be effectively treated by only with four macroelements: Potassium, Calcium, Magnesium, Sodium [11]. Regardless of the type of the disease, his mixtures, applied on the base of blood analysis, gave rapid healing effect in most cases.

It was suggested that each of the Primary Elements of Chinese philosophy can be associated with these macroelements.

The two Primary Element were excluded Fire-Minister and Earth - in the Doppler model they correspond to the polar level of H⁺ and electron concentration (Fire-Minister is excess of H⁺, but Earth is excess of electrons).

To find correlation of Ca⁺⁺, Mg⁺⁺, K⁺ and Na⁺ with other Primary Elements we studied spectra of absorption-emission energy in the Ballmer's series of visible solar spectrum [12], Fig. 28. As a conclusion we have correlation as follows: **Fire-Minister** – excess of H⁺; **Earth** – electrons excess (or OH⁻ radical); **Wood** - Calcium; **Fire** – Potassium; **Metal** – Magnesium **Water** – Sodium.

Below there is the line of reasoning:

Hydrogen:

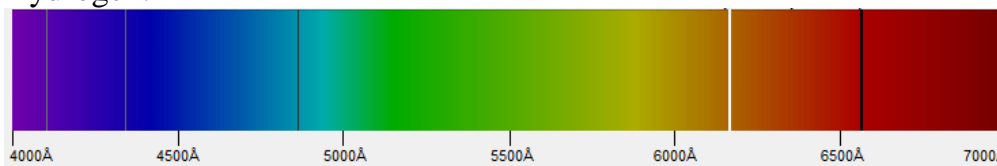


Fig. 28. Spectrum of Hydrogen atom

Potassium:

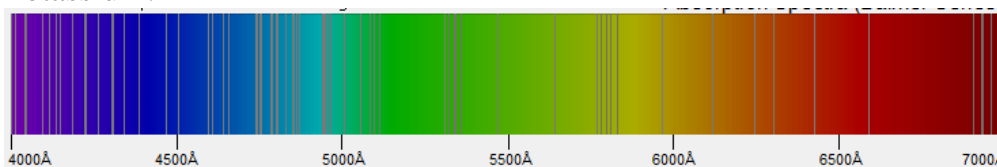


Fig. 29. Spectrum of Potassium atom

Sodium:

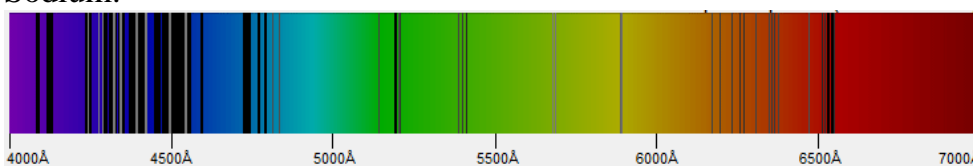


Fig. 30. Spectrum of Sodium atom

Magnesium:

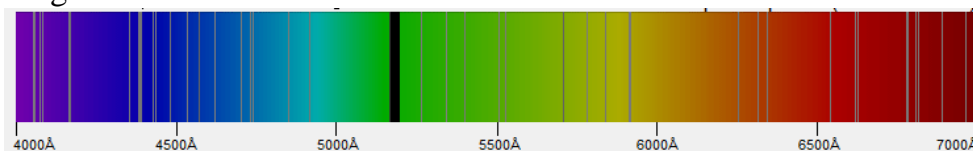


Fig. 31. Spectrum of Magnesium atom

Calcium:

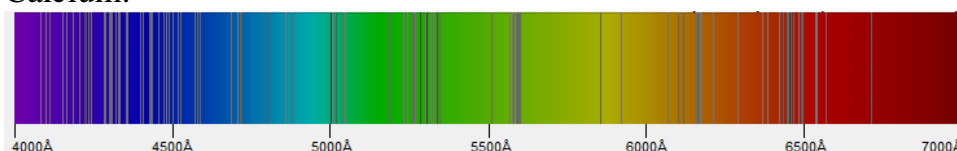


Fig. 32. Spectrum of Calcium atom

If we'll get smoothed graph of spectral energy power of macroelements, their lines will be represented as at picture below (Fig. 33).

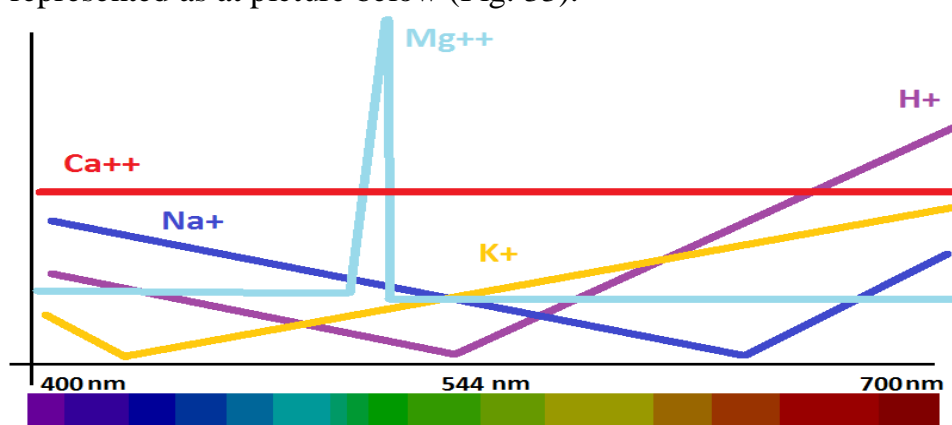


Fig.33 Smoothed energy spectrums of 4 macroelements

- The Hydrogen graph shows a decline in the power of vibration at green area and increases towards the edges, where the purple area is situated (area of increased acidity). The Hydrogen is associated with Triple energizer (Blood) and Pericardium meridians.

- The Potassium graph has the power of vibrations decreased at area with the short wavelength - in the field of blue color. Mid-power spectrum occurs at a yellow color, which was previously identified in correlation with Fire element. Minimum of power of vibrations (blue color) corresponds to the element of Water. It is obvious spectral confrontation between Fire and Water elements in the daily circulation and this graph confirmed the physical base. The Potassium is associated with Heart and Large Intestine meridians.

- The Sodium graph in opposition with Potassium graph has the greatest value in the short-wave part of the spectrum and the average maximum of power in spectrum is placed at blue color area, but the minimum - at yellow area. Previously, the blue color was determined in correlation with Water element, and its minimum in the yellow spectrum corresponds to confront with Fire. The Sodium is associated with Kidneys and Stomach meridians.

- The Magnesium graph has a narrow maximal spike in the transition from green to blue color, while the rest part of the spectrum has a meager value. Up to opinion of the Author, taking into account the established correlation of four previous macroelements (Hydrogen, Potassium, Sodium and Hydroxyl ion OH-) with the Primary elements, the line of Magnesium is most likely corresponds to the Metal element. Magnesium is associated with the Lungs and Small Intestine meridians.

- The Calcium graph has a smoothed character throughout the spectrum with a moderate level of energy. It remains the sole possible correlation with the Wood element. In favour of this relationship at least two arguments can be presented: a - mutual metabolic suppression between Magnesium and Calcium is well known in medicine and at graphs we can see some form of opposition - Magnesium has concentrated energy at narrow band of spectrum and Calcium has the scattered energy over the whole spectrum; b - In traditional Chinese medicine the Wood element (Wind Qi) is responsible for the movement, while the Calcium in vivo is directly involved in the contractile processes (Magnesium - on the contrary, promotes relaxation). Calcium is associated with the Liver and Urinary Bladder meridians.

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