

Hacking DNA structure of I-Ching codes

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November 18, 2021

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Introduction

The purpose of this study is to establish the physical structure of the I-Ching code and the practical application of the found dependencies to control the state of the organism in the paradigm of spectral analysis.

The current situation

The current understanding of the I-Ching (Book of Changes) by modern historiographic science is based on the postulate of esotericism and specific fortune-telling practice, implicitly referring to the unknowability of the subject of study by an ordinary person.

This allows the adherents of official history to blow up mystical smoke and empty information noise, introducing into ecstasy or stupor (depending on the goal) into interested and inquisitive minds. The matter usually comes down to the interpretation and discussion of the squiggles of Chinese characters, or researchers, burdened with the knowledge of a complex mathematical apparatus, build exotic models of symmetries, relying on the arrangement of lines in hexagrams.

All this is reminiscent of an operation to cheat one famous oligarch, who was lured away with tales of the "melodiousness of shapes" for a cheap handicraft "Salvator Mundi" allegedly painted by the great Leonardo.

And such "Stradivarius Drums" can be found in everything that concerns antiquities. The theory of Chinese traditional medicine and philosophy is not an exception.

In fact, the special management of modern social knowledge and science does not give ordinary citizens absolutely any chance to understand the real mechanisms of nature work. The motive for limiting knowledge is obvious - the hierarchs of the planet do not want to have competitors for a place under the Sun. And they act very effectively, promoting the agenda of the current day through servile sources of information and their satraps, no matter how crazy it is - the main point is to impose unconditional obedience as the most important principle of management.

Therefore, for people with the spirit and free will, the only principle of existence remains - to rely on their sanity, to study science in every possible way, to approach any information practically and critically, no matter what authority spews it out.

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Only this gives a chance for an objective understanding of any processes, provides an opportunity to predict the development of events, which is extremely important for survival and independent effective action in changing conditions.

This research uses the physical theory of the existence of the world Aether (it is in every possible way discredited and hushed up by the official science, leading to the jungle of particle-wave dualism).

According to the author's opinion, the entire theory of traditional Chinese philosophy cannot be brought to the level of broad practical knowledge without the Aether hypothesis. On the basis of this theory, certain steps have already been taken to illuminate the grandiose philosophical construction of Chinese medicine.

Today there is a clear understanding that this philosophy in all its details was created by a highly technical civilization of the very recent past. The author believes that this civilization in all its power existed no earlier than 300 years ago.

The current events of our time allow us to assert this since the processes of degradation of the scientific foundation are quite obvious in the interval of one human life. What can we say about periods of hundreds and thousands of years, especially against the background of a completely false official history, even of the 19th century?

What is to begin with?

Before continuing reading, it is advisable to familiarize yourself with previous studies in order to be on the canvas for the development of logic. The views of the author have evolved in some details and it will be possible to observe the course of development of thoughts. Therefore, some conclusions in this work may be different. In this case, the latter statement must be considered valid.

For a list of previous papers [1], [2], [3], [4] and links to them, see the end of this article or on the site <https://pulse-academy.com> in the "Research room" section.

The starting point

In treatises on the theory of traditional Chinese medicine (hereinafter TCM), two systems of trigrams and hexagrams are mentioned - according to Fu Xi and King Wen.

In work [1], the author put forward a hypothesis about the meaning of trigrams as symbols of a certain physical parameter, which is associated with the wavelength of a particular part of the solar spectrum. Based on the trigram correspondences of Fu Xi in relation to the elements of TCM, a physical Doppler model of the origin of the 12 main meridians was built.

But King Wen's trigrams supposedly describe other functional relationships among the parts of the sunlight spectra. Therefore, they may have a different correlation with the elements.

And, as we will show below, other trigram correspondences are also very convenient for describing a specific physical process, which is known in digital technology as the RGB model of interaction of color vibrations (synthesis of any color from red - green - blue color vibrations).

Below is a model of trigrams, where the assignment of color for each line was made in accordance with the rules of TCM philosophy and the qualities of the elements of the meridians in the Doppler model:

- The lowest solid line belongs to the vibration of red, as having the lowest frequency in the spectrum of sunlight,
- The lowest dashed line indicates a complementary (opposite color according to Goethe's theory) - for red it will be turquoise (cyan),
- The next color in the spectrum of sunlight after red is yellow, but it will be displayed as a dashed line (the principle of alternating Yin and Yang)
- it will be the middle line of the trigram,
- Yellow is complementary for blue and the middle line of the trigram is drawn with a blue solid line,
- Accordingly, the uppermost line of the trigram will indicate the highest frequency qualities and the green color will be displayed as a solid line and its complementary color as purple (magenta) as a dashed line.

Thereby:






	<i>White</i>	- The white color of the trigram is formed by simultaneous actions of green, blue and red vibrations, which together generate yellow, blue and purple vibrations,
	<i>Magenta</i>	- Magenta is generated by the sum of blue and red vibrations,
	<i>Yellow</i>	- Yellow is synthesized by green and red vibrations,
	<i>Red</i>	- Red comes from a mixture of magenta and yellow vibrations,
	<i>Turquoise</i>	- The turquoise color is formed by the sum of green and blue vibrations,
	<i>Blue</i>	- Blue comes from a mixture of magenta and turquoise vibrations,
	<i>Green</i>	- Green is the result of mixing turquoise and yellow,
	<i>Black</i>	- Black is generated by red, green and blue vibrations, which in turn are the result of mixing turquoise, yellow and blue colors.

Fig. 1

Now, taking into account the color of each trigram and taking into account the color correlations with the elements obtained in the Doppler model using the Fu Xi order [1], the trigrams possible in King Wen's scheme should correspond to the TCM elements as follows:



Fig. 2

In the course of the discussion, the question arises of the need for such a ternary structure. Apparently, this is a consequence of the three-dimensionality of our Universe, which predetermines the existence in physical space of three wave processes along with three mutually orthogonal directions of motion. The result of mixing these three wave processes (vibration spectra) will be a certain volumetric structure - an analogue of Lissajous figures known in electrical engineering. The author assumes that any body of our physical world is formed in this way.

Fu Xi and King Wen

Let us repeat the provisions of the hypothesis set forth - trigrams according to Fu Xi, in correlation with the elements, show a connection with one physical parameter (specifically with the wavelengths of light of the corresponding spectrum of oscillations), and King Wen's trigrams, using lines endowed with color, show the scheme of interaction of spectra in the process of forming vibrations of specific Elements.

In this sense, hexagrams of the Fu Xi order reflect the position of the corresponding resulting color (a composition of three mutually orthogonal wave processes) on the Aether density scale.

On the other hand, the hexagrams of the King Wen sequence, on which the order of the Book of Changes is based, form a certain cycle in three-dimensional space, where a closed flow of vibrational energy from one spectrally unique type to another has a place in the space-time lattice of Doppler processes according to the Wu-Xing law (by the links of mutual generation and suppression).

Briefly about the difference between the Fu Xi and King Wen systems, we can say that the difference between them is the same as between the description of quantitative characteristics (Fu Xi) and the description of the qualities (King Wen) of the object of research.

Physical basis of the King Wen Wang sequence

Comprehension of TCM postulates from the perspective of the Doppler model of the origin of the elements ([1], [2], [3], [4]) led to the following conclusions:

The Doppler effect causes the elements (in other words, spectra) to be ranked according to the vibration amplitudes (this requires the principle of maintaining the equality of vibrational energy during its migration from one frequency to another and lies in the fact that higher-frequency vibrations have smaller amplitudes in comparison with low-frequency vibrations).

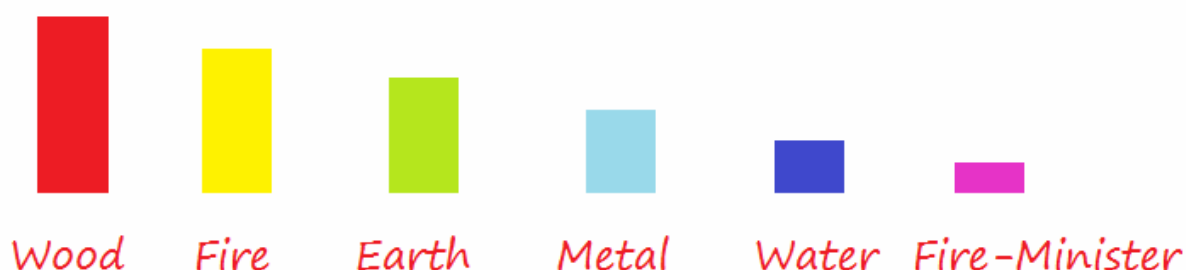


Fig. 3

According to the Doppler model and the TCM canons, the beginning of any cycle is the element of the Wood (and in the solar visible spectrum these are vibrations of dark red on the border with black). The Wood element corresponds to the minimum density of the Aether in space, and only under these conditions it is possible to release the internal Aether stored earlier by the vortex structures of material bodies. From this point of view, the Wood is considered the starting point, the phase of the beginning of the process and the manifestation of the vibrational essence of each particle of matter.

Starting with the element of Wood, the density of the Aether gradually increases

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due to the Doppler effect, reaching the maximum value in the element of Fire-Minister. It is on the Fire-Minister phase that the moment of arrival of the shock action of the outer wave of space falls, which energizes the rotational motion of our planet and all oscillatory processes that are in resonance.

The figure below conventionally shows the distribution of the energy density of oscillations of two Doppler cycles in a daily cycle. This model was used to construct the 12 Liu scheme of the Chinese musical system [4].

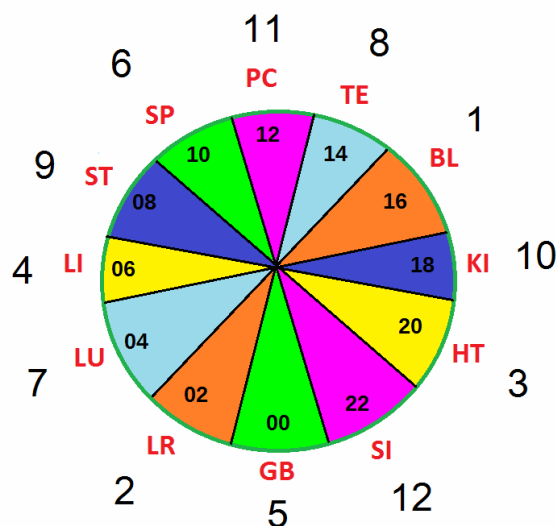


Fig. 4

Where:

BL - Urinary Bladder, Yang Wood of the centrifugal system of meridians,
 LR - Liver, Yin Wood of the centripetal system of meridians,
 HT - Heart, Yin Fire of the centrifugal system of meridians,
 LI - Large intestine, Yang Fire of the centripetal system of meridians,
 GB - Gallbladder, Yang Earth of the centrifugal system of meridians,
 SP - Pancreas, Yin Earth of the centripetal system of meridians,
 LU - Lungs, Yin Metal of the centrifugal system of meridians,
 TE - Triple Heater, Yang Metal of the centripetal system of meridians,
 ST - Stomach, Yang Water of the centrifugal system of meridians,
 KI - Kidneys, Yin Water of the centripetal system of meridians,
 PC - Pericardium, Yin Fire-Minister of the centrifugal system of meridians,
 SI - Small intestine, Yang Fire-Minister of the centripetal meridian system.

Black numbers from 1 to 12 show the conditional density of Aether in the Doppler cycle.

In this case, the Elements of the upper level of the hierarchy are also formed, which have the appropriate total densities of the Aether:

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- Heart and Small intestine form the Wood ($3 + 12 = 15$ units),
- Gallbladder and Liver - Fire ($5 + 2 = 7$ units),
- Lungs and Large intestine - Earth ($7 + 4 = 11$ units),
- Stomach and Pancreas - Metal ($9 + 6 = 15$ units),
- Pericardium and Triple Energizer - Water ($11 + 8 = 19$ units),
- Urinary Bladder and Kidneys - Fire - Minister ($1 + 10 = 11$ units).

Or graphically:

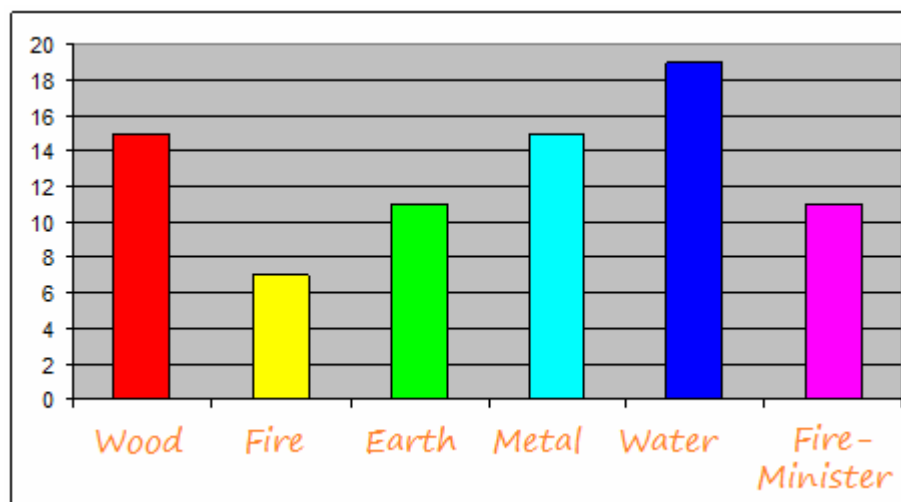


Рис. 5

As you can see the lowest density of the Aether in the range of the Elements of the upper level of hierarchy falls on the Fire. This differs from the lower level, where the minimum density falls on the Wood and presumably corresponds to the law of elemental generation along with the levels of the hierarchy. Namely, during the period of the minimum density of the surrounding Aether, all internal properties of all objects are manifested in the form of certain vibrations (in the field of reduced Aether pressure, the vortex structures of the substance disintegrate).

On the other hand, in TCM there is another **synthetic scheme of the Elements**:

Heart + Lungs + Pericardium = Fire element,
 Liver + Pancreas + Kidneys = Metal element,
 Stomach + Urinary Bladder + Gallbladder = Water element,
 Triple Energizer + Small intestine + Large intestine = Wood element.

Let us represent these elements in the form of a table in the correspondences with the Aether pressure from the diagram of the Doppler model (Fig. 4):

	Fire	Metal	Water	Wood	Horizontal sum
	PC - Pericardium = 11	KI - Kidneys = 10	GB - Gall Bladder = 5	LI - Large Intestine = 4	30
	LU - Lungs = 7	SP - Pancreas = 6	BL - Urinary Bladder = 1	SI - Small Intestine = 12	26
	HT - Heart = 3	LR - Liver = 2	ST - Stomach = 9	TE - Triple Energizer = 8	22
Vertical sum	21	18	15	24	

Fig. 6

As can be seen from Fig. 6, there is a hierarchy of sums along the vertical and horizontal, but judging by the quantitative parameter of the Aether density of each such synthetic Elements, then it does not coincide with the scheme of the Elements of the upper level - there is a reverse order of densities.

However, if we take into account the fact that in this case the density is formed by three orthogonal vibrations, then we should take into account the qualities of such vibrations from the point of view of the direction of motion of the vibrational energy in the volume of space.

So - purple (magenta), yellow and turquoise (cyan) vibrations move from a source of vibrational energy. We perceive them as white. Red, green and blue vibrations move towards the object, which absorbs and transforms vibrational energies, and an outside observer has a feeling of black color (black hole).

Taking into account that each meridian belongs to a centripetal or centrifugal system, we make the following conclusion:

- The meridians of Fire element - Pericardium, Lungs and Heart (vibrations of white color inside) belong to the centrifugal system. They are emitters (energy moves outside the body) and the density of the surrounding Aether in 21 units must be assigned a negative sign - the density decreases.
- The meridians of Metal element - Kidneys, Pancreas and Liver belong to the centripetal system of meridians, i.e. they are representatives of the external environment that absorbs energy, giving us the feeling of black. Accordingly, the density of the external Aether of 15 units must also be assigned a negative value.

- Meridians of Water element - Gallbladder, Urinary Bladder and Stomach (vibrations of black color) belong to the centrifugal system of meridians and absorb external energy into the body. Aether density of 15 units remains unchanged and positive.
- Wood element meridians - Large intestine, Small intestine, Triple Energizers (white vibrations) belong to centripetal meridians, and their vibrational energy is directed into the body. Accordingly, the density of the Aether remains positive and equal to 26 units.

Thus, taking into account the dynamics of energy movement caused by the work of vibrations of different colors in the perspective of the centrifugal and centripetal meridians, we got the following correspondences between the density of the Aether and the synthetic elements:

- Fire - minus 21 units,
- Metal - minus 18 units,
- Water - plus 15 units,
- Wood - plus 24 units.

Hereby, in the cycle of the generation of one element by another, the phenomenon of an increase in Aetheric pressure manifested itself.

At the same time, during the phases of Fire and Metal, Aether waves are emitted (there is a negative external Aether pressure), and during the phases of Water and Wood, elastic Aether is distributed by excessive pressure over the vortex structures of material bodies.

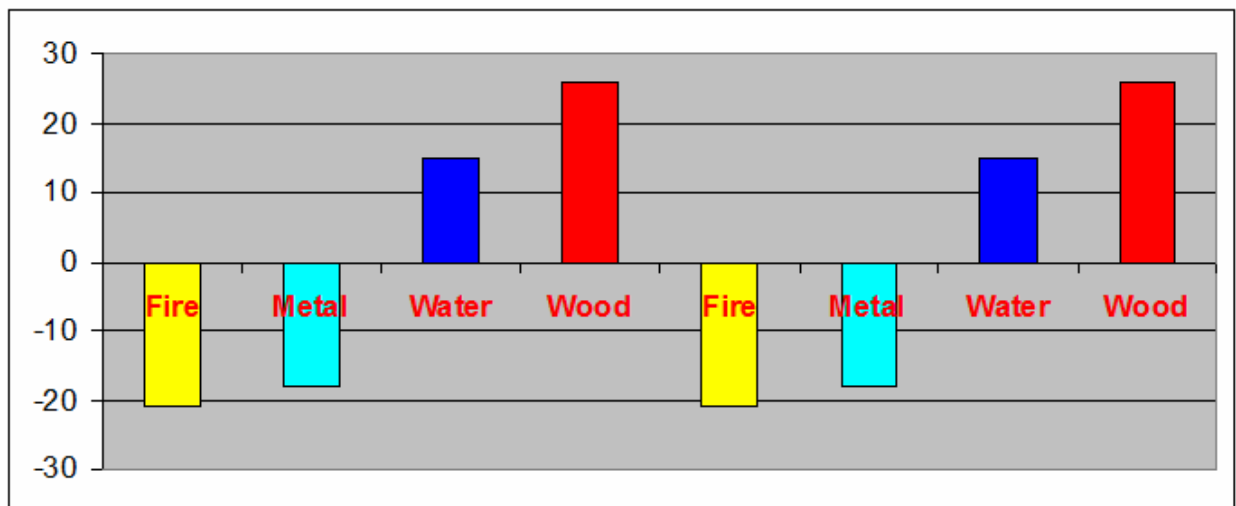


Fig. 7

The Doppler effect of gradual contraction and rapid expansion of Aether is again manifested at the moment of transition from the Wood phase to the Fire phase.

At the same time, there is the general balance between the rarefaction of the Aether (Fire + Metal \rightarrow (-21) + (-18) = - 39) and its thickening (Water + Wood \rightarrow 15 + 24 = 39).

In the table at Fig. 6 horizontally, the density of three systems of circulation is obtained (each system is a manifestation of one of the directions of three-dimensional space and is a set of 4 elements - Fire, Metal, Water and Wood, which created a flat circulation).

The total density of the elements of the lowest row in Fig. 6 indicates that the system is the lowest frequency of the three, and at the upper line, there is a system with the highest natural frequencies. This corresponds to the construction of trigrams and hexagrams from the point of view of the spectral characteristics of objects (reading from bottom to top - from a less dense entity to a denser one).

The middle system of circulation is represented by the meridians, during the periods of which the corresponding element, according to the TCM canons, has a maximum, flourishing - Lungs (Fire), Pancreas (Metal), Urinary Bladder (Water), Small intestine (Wood). At the same time, it turns out that during periods of activity of the meridians on the bottom line, the elements arise, and during the period of activity of the meridians on the top line, the elements die, have their minimal manifestation.

In accordance with the qualities of the elements regarding their properties in relation to radiation and absorption of vibrations, let us compare the four images of Yin and Yang with 4 elements, which will symbolize the ability to radiate energy and manifest it in the external world:



Fig. 8

The manifestation of things is maximum during the period of activity of the Fire element (two solid lines) and minimal during the period of the element of Wood (two dashed lines are the maximum pressure of the Aether, which determines the amount of potential energy that can be deployed when the pressure of the Aether is weakened).

With the help of these diagrams, we have the opportunity to create hexagrams according to the principle Earth - Human - Heaven.

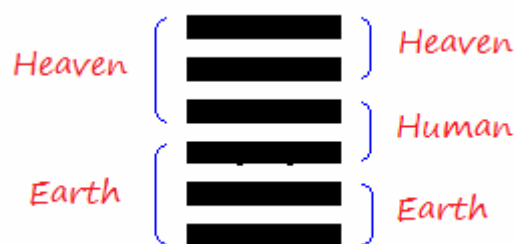


Fig. 9

Using the table in Fig. 6, the first and second lines of the hexagram (the level of the Earth at Fig. 9) are stipulated by the lower system of circulation (the meridians of Heart, Liver, Stomach and Triple Energizer). The Human Level - the third and fourth lines of the hexagram are determined by the middle row of the table (the meridians of Lungs, Pancreas, Urinary Bladder and Small intestine). And finally - the level of Heaven, the fifth and sixth lines of the hexagram are determined by the upper line of the table and by the meridians of Pericardium, Kidneys, Gall bladder and Large intestine.

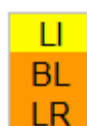
Checking the hypothesis of the physical basis of the hexagrams in the Book of Changes

1. Checking through the trigram color model, this is stated before (see Fig. 2 above).

Pure hexagram of Wood number 51 (震 zhèn, the Arousing, Shock, Thunder):



It is a set of meridians:

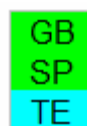


Wood element meridians in the Doppler model are represented by - Urinary Bladder (BL) and Liver (LR). There is consilience.

Pure hexagram of Earth number 52 (艮 gèn, Keeping Still, Mountain):



It is a set of meridians:



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Earth is Gallbladder (GB) and Pancreas (SP) in the Doppler model of the meridians. There is consilience.

Pure hexagram of Water number 29 (The Abysmal):



It is a set of meridians:



Water is Stomach (ST) and Kidneys (KI) in the Doppler model of the meridians. There is consilience.

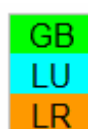
The presented pure hexagrams of Wood, Earth and Water in the Doppler model are associated with vibrations of red, green and blue - in the physical RGB model, the sum of these three colors synthesizes white, and in TCM the corresponding hexagrams have "masculine", Yang qualities.

Now let's consider the pure hexagrams of the elements Fire, Metal and Fire-Minister, which correspond to yellow, turquoise (cyan) and purple (magenta) colors, respectively. These color vibrations in the RGB model synthesize black, and in TCM they have "feminine" qualities, Yin characteristics.

Pure hexagram of Fire number 30 (離 lí, The Clinging, Fire):



It is a set of meridians:

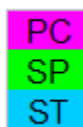


The resulting set of meridians in the Doppler model reflects the element of Fire at the higher level of the hierarchy obtained by the joint action of the systems of centrifugal and centripetal meridians, where the green vibrations of the Gallbladder (GB) and the red vibrations of the Liver (LR) give rise to yellow vibrations of the Fire element. At the same time, the third element in the hexagram - the Lungs meridian (LU) - is the culmination of the synthetic element of Fire, considered earlier.

Pure hexagram of Metal number 57 (巽 xùn, The Gentle, The Penetrating):

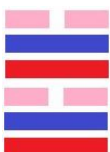


It is a set of meridians:

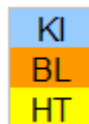


In the Fu Xi scheme, the trigram is associated with the Wood element (Qi of the Wind). However, according to the author, this hexagram gravitates more towards 乾 - qián (Heaven) and the resulting set of meridians in the Doppler model reflects the Metal element at the upper level of the hierarchy, where blue vibrations of the Stomach (ST) and green vibrations of Pancreas (SP) give rise to turquoise (cyan) vibrations of Metal. At the same time, the third element in the hexagram - the Pericardium meridian (PC) - is a period of degradation of the synthetic element of Fire, considered earlier, which, according to the TCM canons, corresponds to the opposite relationship between the elements of Fire and Metal in the Wu-Xing interaction scheme.

Pure hexagram of Fire-Minister number 58 (兌 duì, The Joyous):



It is a set of meridians:



The resulting set of meridians in the Doppler model reflects the Fire-Minister element at the top level of the hierarchy, where the red vibrations of the Urinary Bladder (BL) and the blue vibrations of the Kidneys (KI) give rise to the violet (magenta) vibrations of the Fire-Minister. At the same time, the third element in the hexagram - the Heart meridian (HT) is the period of the origin of the synthetic element of Fire. Also, the Heart meridian, in turn, generates vibrations of the Gallbladder meridian in the centrifugal system of meridians, which is part of the Fire element of the upper level of the hierarchy with the participation of the Gallbladder and the Liver.

Thus, we see that pure hexagrams of the Elements from the Book of Changes have a very definite correlation with certain meridians of the Doppler model. At the same time, the difference between “male” and “female” hexagrams is clearly visible, where female hexagrams are literally “pregnant” with the corresponding meridians that form the element with which pure hexagrams are associated.

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2. Verification of some properties of the I Ching through the distribution of Meng Xi hexagrams in the annual cycle.

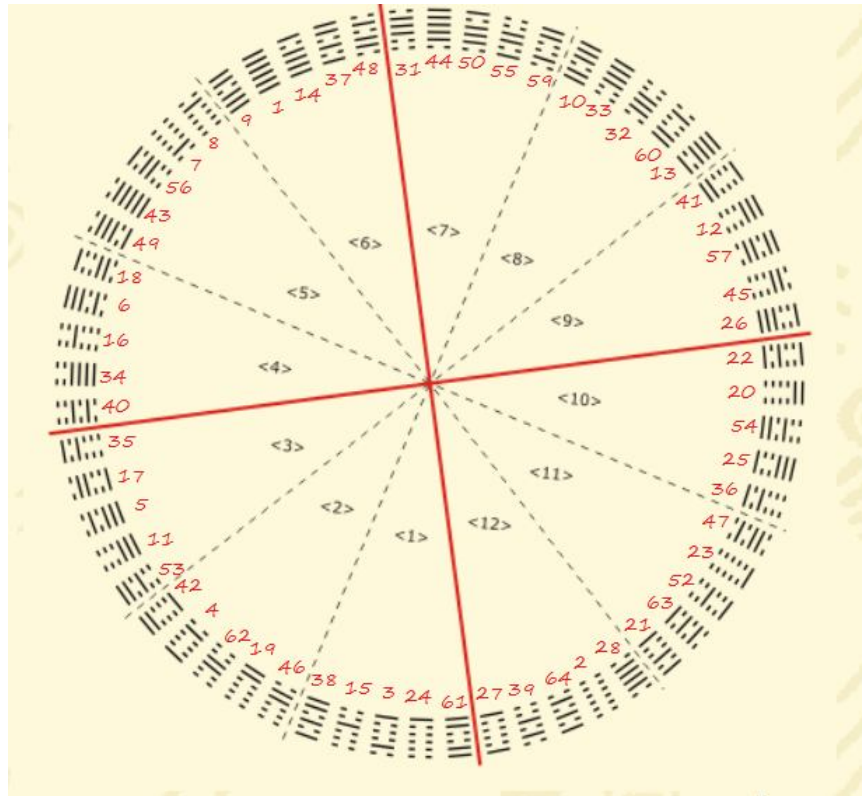


Fig. 10

In Fig. 10 is shown a calendar circle, where each earthly branch from <1> to <12> is associated with 5 hexagrams of the I-Ching.

It is supposed that the lack of physical understanding regarding the relationship of calendar cycles in TCM with the nature of the Doppler effect has led to numerous distortions of calendars. For example, it is believed that the earthly branches for daily circulation begin from the meridian of the Gallbladder. The author suggests that due to the loss of the physical basis, using fragmentary information after the fall of the previous civilization, the Gallbladder meridian was taken as the beginning of the diurnal cycle, mistakenly recognized as the Yang of the Wood element due to the paired work with the Yin of the Wood - the Liver meridian (but in fact, the Gallbladder in the Doppler model is the Yang of the Earth).

However, Yang of Wood is the Urinary Bladder in the Doppler model, which is confirmed by the current version of TCM at the level of earthly branches in the annual cycle.

In TCM, the end of the annual cycle is associated with the 12th earthly branch - 亥 (hai) - 亥有關閉之意，因此亦指草木缺乏生命力並且完全枯萎的狀態 – “Hai has the meaning of closing, so it also refers to the state where the vegetation lacks vitality and is completely withered”.

If we take the period of the Urinary Bladder as the beginning of the cycle, then, accordingly, the Hai branch should be the previous one and in our model corresponds to the element of Yang Metal (Triple Energizer). It is noteworthy that the element Metal is recognized by the TCM philosophy as a period of stopping development and the beginning of a decline, which corresponds to the autumn season, "when the vegetation lacks vitality and is completely withered."

Thus, it can be postulated that the structure of the earthly branches is similar for any cycle (which is uniquely associated with the Doppler effect from the rotation of an object in the Aether stream). This applies to both the daily cycle and the lunar and annual - the difference lies only in the scale of circulation.

There are two points of beginning in Chinese calendars, and both have explanations.

- The beginning of the cycle from the period of the branch 子 (Tzu) - Rats (sexagesimal system Dzia-Tzu (甲 jiǎ - 子 zǐ)). This is the earthly branch of the Urinary Bladder meridian and corresponds to a period the annual cycle from about December 5 to January 4, so that the middle of this period falls on the day of the winter solstice. The choice of this period from the point of view of the Doppler effect is predetermined by the action of the Fire-Minister element (the period of action of the earthly branches of the meridians of the Urinary Bladder and Kidneys, and in the annual cycle - the period from about December 5 to February 5). As mentioned earlier, the Fire-Minister is a manifestation of the cosmic action of Aether streams that create a Doppler picture of vibrations around a rotating object (in our case, planet Earth).

- The second option for the beginning of the cycle is the beginning of the Yang Wood element in the annual cycle, which falls on about February 5 (寅 (Yin) Tiger), which corresponds to the beginning of the earthly branch of the Heart meridian (in the Doppler model). Such an establishment is a manifestation of the law of succession of the elements in the cycle of mutual generation, and any cycle, in accordance with the postulates of TCM, begins with the element of the Wood. And by the way, the Urinary Bladder meridian from the previous paragraph is also a manifestation of the Wood element for the centrifugal system of meridians.

It is interesting to note that the names of the earthly branches in this cycle are very similar to a simple listing in one of the many Chinese dialects. In any case, the first five branches are uniquely defined as follows:

Periods and Dopplers colors	Element	Chinese numbers
1st – 寅 (yin) Tiger	Wood	一 - yī
2nd – 卯 (mao) Rabbit	Wood	二 - èr
3rd – 辰 (chen) Dragon	Earth	三 - sān
4th – 巳 (si) Snake	Fire	四 - sì
5th – 午 (wu) Horse	Fire	五 - wǔ

Fig. 11

The installation of the first earthly branch in this coordinate system starting on the Heart meridian (time from 19.00 to 21.00 in the Doppler model of meridians) corresponds to the traditions of determining the beginning of the cycle from the Wood element (and in the Doppler model, the Heart and Small intestine meridians form the Wood element of the upper hierarchy level (period from 19.00 until 23.00). It is a manifestation of the fusion of yellow and purple (magenta) vibrations into the red vibrations of the Wood.

This approach has both physical and physiological meaning from the point of view of the organism. The heart as a place of formation of the reflection impulse of the surrounding Aether waves, which arrived during the period of the action of the purple element Fire-Minister, serves as the generator of the reference frequency of the entire electrical system of the body, predetermining the functioning and coordination of the potentials of each cell in the body.

However, in the Meng Xi calendar chart, according to the author, both of the above options for the beginning of the cycle are not suitable.

And here are the signs:

The synthetic elements that were used to construct the I-Ching hexagrams have the following hexagram representation:

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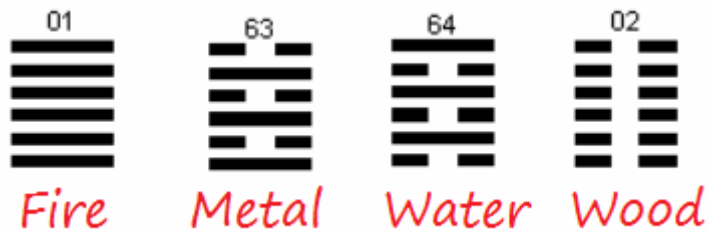


Fig. 12

Let us consider on the Meng Xi diagram (Fig. 10) the location of the hexagrams of synthetic elements in the context of the earthly branches.

We have found:

Fire - (hexagram 01 - "The Creative") - 6 earthly branch,
 Metal - (hexagram 63 - "After Completion") - 11 earthly branch,
 Water - (hexagram 64 - "Before Completion") - 12 earthly branch,
 Wood - (hexagram 02 - "The Receptive") - 12 earthly branch.

Thus, hexagram 63 "After Completion" (synthetic element Metal) clearly indicates the end of the cycle. And as shown above, this corresponds to the twelfth earthly branch under the name "Hai" in the system of the sexagesimal calendar and which falls on the period of Yang Metal - the Triple Energizer in the Doppler model of the sequence of meridians.

Based on this assumption, the next earthly branch will correspond to the period (Zi) Rat - Urinary Bladder. In the Meng Xi system, this is the earthly branch number 12, and in the middle of this branch is the hexagram 64 "Before Completion" (the element of Water), which, without doublethink, determines the moment of the beginning of a new cycle. At the same time, the previous hexagram 2 "The Receptive" unambiguously speaks of the completion of the previous cyclic movement on the one hand, and on the other hand, being a hexagram of the synthetic element of the Wood indicates the moment of the emergence of a new cycle, which will receive maximum development during the period of activity of the Small intestine meridian (in the Doppler model).

According to the author's opinion, it is on hexagram 64 that the moment of the winter solstice falls, which serves as an exact indicator of the moment of the astronomical manifestation of the end of one cycle and the beginning of another (in the daily Doppler circulation, this is the moment of 16.00 hours). At the same time, the red line between the twelfth and first branches on the Meng Xi diagram indicates the moment when the Earth is at perihelion relative to the Sun (at the shortest distance, at the moment of the greatest compression by the Aether wave resonating with the period of the orbital motion of our planet).

And this moment is the beginning of the work of the Kidney meridian, the middle of which roughly corresponds to the date of January 20 - the feast of Epiphany in the Russian Orthodox Church. The exact moment of the middle of the Kidney activity in the annual cycle is equal to $1/24$ of the length of the year added to the astronomical moment of perihelion. The middle of the daily activity of the Kidneys falls just at 18.00.

In the middle of the daily activity of the Kidneys (the first branch in the Meng Xi diagram), there is the beginning of hexagram 3 "Difficulty At The Beginning". This hexagram in our model is represented by the sum of the vibrations of the following three meridians:

KI - Kidneys,
SI - Small Intestine,
LR - Liver.

Those. we see three meridians of the centripetal system, which are harmoniously sequential right at the beginning of a new cycle, jointly synthesizing vibrations of purple color (blue + red + purple), which take participation in the generation of red vibrations of the Wood element of the upper level of the hierarchy. And on the other hand, the Small intestine meridian is the place where the synthetic element of the Wood flourishes.

In the second earthly branch of the Meng Xi scheme (according to our version, it belongs to the Heart meridian) we find hexagram 4 "Youthful Folly". This hexagram is remarkable in that it has the highest, densest vibrational characteristics, and its meridians belong to the synthetic elements of Water and Wood (Fig. 6), which are aimed at compression, the introduction of Aetheric vibrations into the body.

GB - Gallbladder (density 5 units),
SI - Small intestine (density 12 units),
ST - Stomach (density 9 units).

The maximum Aether density of this period is presumably the driver of all frequencies going through the heart at this moment. It is also the moment the heart carries out its synchronization with the surrounding vibrational field. The middle of the action of hexagram 4 falls on 20 hours 24 minutes of local sidereal daily time. Obviously, the situation of the hexagram "Youthful Folly" presupposes the further development of the wave process in the body.

Probably, the above-mentioned fact is also the basis for the widespread recommendations to exclude food after 18 hours, since a violation of the synchronization process with the environment can be blocked by an untimely load

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of the corresponding meridians, which, as you can see in the hexagram 4, refer to the digestive system. The loss of synchronicity with changes in the environment by the body's biorhythms inevitably leads to diseases.

And finally, consider the sixth branch from the Meng Xi scheme, where we find hexagram 1 "The Creative". This hexagram represents the synthetic element of Fire and it is located just in the meridian of the Lungs - the manifestation of the maximum creative activity of the synthetic element of Fire according to the TCM canons. The Lungs Meridian is in opposition to the Urinary Bladder meridian in the circulation cycle. And in the Urinary Bladder, the synthetic element of Water is flourishing - the oppositional properties of the elements of Fire and Water are evident.

In the middle of the activity of the Lungs meridian in the year cycle is the day of the summer solstice, after which the development begins to decline.

Thus, we see a certain semantic correlation of hexagrams in the interpretation of the Doppler model with the Meng Xi scheme. And in this scheme, obviously, the first earthly branch belongs to the Kidney meridian.

Genetic Code of the Book of Changes

1. The first confirmation of the model

The most interesting verification of the presented physical model of the Book of Changes is the test of the properties of the genetic code. The need for such a check lies on the surface due to the ternary structure of the elements of hexagrams in the presented model.

To begin with, we must determine the correlation of the belonging of DNA triplets - Cytosine (CCC), Adenine (AAA), Guanine (GGG), Uracil (UUU) - to certain synthetic elements.

It is known from biochemistry that nitrogenous bases are subdivided into purines and pyrimidines. Based on the etymology of the word - purine, from the Latin purus - "pure", it is most likely to correlate the elements of Fire and Metal with these bases, and of these two elements, the element of Fire corresponds to purity, which is the manifestation of yellow, turquoise (cyan) and purple (magenta) vibrations.

On the other hand, the group of pyrimidines includes Uracil, which can be unambiguously associated with the Urinary Bladder (ur (ea) + ac (etic) - uric acid), which is part of the synthetic element of Water.

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Accordingly, we get the following dependencies:

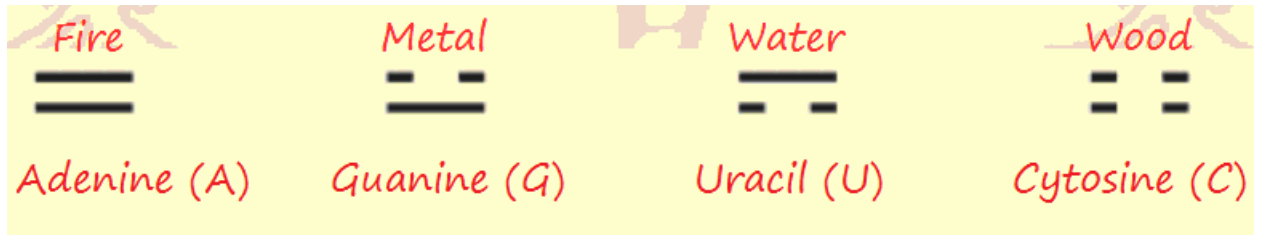


Fig. 13

Thus, we can associate a certain DNA triplet with each hexagram.

Let's consider the probable reasons for one of the known properties of the DNA code - redundancy when 61 out of 64 triplets encode only 20 amino acids.

Standard RNA codon table

Amino-acid biochemical properties		Nonpolar ↑	Polar †	Basic ‡	Acidic ↓	Termination: stop codon *	Initiation: possible start codon →		
Standard genetic code									
1st base	2nd base				3rd base				
	U	C	A	G					
U	UUU	(Phe/F) Phenylalanine ↑	UCU	(Ser/S) Serine †	UAU	(Tyr/Y) Tyrosine †	UGU	(Cys/C) Cysteine †	
	UUC		UCC		UAC	UGC			
	UUA		UCA		UAA	UGA	Stop (Ochre) * ^[note 2]	UGA	Stop (Opal) * ^[note 2]
	UUG →		UCG		UAG	UGG	Stop (Amber) * ^[note 2]	UGG	(Trp/W) Tryptophan ↑
C	CUU	(Leu/L) Leucine ↑	CCU	(Pro/P) Proline †	CAU	(His/H) Histidine ‡	CGU	(Arg/R) Arginine ‡	
	CUC		CCC		CAC	CGC			
	CUA		CCA		CAA	CGA			
	CUG		CCG		CAG	CGG			
A	AUU	(Ile/I) Isoleucine ↑	ACU	(Thr/T) Threonine †	AAU	(Asn/N) Asparagine †	AGU	(Ser/S) Serine †	
	AUC		ACC		AAC	AGC			
	AUA		ACA		AAA	AGA	(Arg/R) Arginine ‡		
	AUG →		ACG		AAG	AGG			
G	GUU	(Val/V) Valine ↑	GCU	(Ala/A) Alanine †	GAU	(Asp/D) Aspartic acid ↓	GGU	(Gly/G) Glycine ↑	
	GUC		GCC		GAC	GGC			
	GUA		GCA		GAA	GGA			
	GUG →		GCG		GAG	GGG			

Fig. 14

As seen in Fig. 14, the redundancy of the DNA code is characteristic mainly of those triplets where the middle nucleobase is represented either from Uracil (U) or Cytosine (C), and triplets with the middle base Adenine (A) and Guanine (G) are represented by a more numerous set of amino acids, in including among them are stop codons.

This state of affairs can again be explained using the Aether hypothesis,

The previously presented table of meridians and synthetic elements in relation to DNA nucleobases in the context of the relative frequency scale associated with each meridian in the Doppler model provides a logical physical basis for the observed phenomena (see Fig. 15 below).

Fire	Metal	Water	Wood	Levels of DNA triplets
PC - Pericardium = 11	KI - Kidneys = 10	GB - Gall Bladder = 5	LI - Large Intestine = 4	Third nucleobase
LU - Lungs = 7	SP - Pancreas = 6	BL - Urinary Bladder = 1	SI - Small Intestine = 12	Second nucleobase
HT - Heart = 3	LR - Liver = 2	ST - Stomach = 9	TE - Triple Energizer = 8	First nucleobase

Fig. 15

The fact that the main meridians in the ternary complex of hexagrams are the elements located at the middle level has already been saying earlier. And the fact that the redundancy of the DNA code is observed precisely in connection with the middle base only confirms this assumption.

It turns out that the meridians that form the maximum activity of synthetic elements have the greatest functional weight in comparison with the meridians that represent the DNA nucleobases at the first and third positions of the triplets. And these main meridians include the meridians of the Lungs (Adenine), Pancreas (Guanine), Urinary Bladder (Uracil), Small intestine (Cytosine).

Теперь внимательно посмотрим - в чем имеются отличия между триплетами в классификации с точки зрения среднего основания.

Let's calculate the total number of amino acids (including stop codons) for each group:

- for Adenine in the middle base - 9 different structures are encoded,
- for Guanine - 7 structures,
- for Uracil - 5 structures,
- for Cytosine - 4 structures.

Let's look at Fig. 15, what distinguishes the Cytosine group, where the third base of the triplet is ignored and the corresponding amino acid is actually determined by only the first two nucleobases?

It is obvious that the middle base of Cytosine is determined by the unique qualities of the Small intestine meridian (SI), which has the maximum Aetheric density and the property aimed at the compression of the space. From this point of view, it is possible to calculate the total Aether density of the first two bases of the table of the standard genetic code (Fig. 14), taking into account the quality of the Aether compression-expansion:

1 и 2 основание	Плотность
AG (-3-6= - 11)	-11
AA (-3-7= -10)	-10
GA (-2-7= -9)	-9
GG (-2-6= - 8)	-8
AU (-7+1 = -6)	-6
GU (-6+1 = -5)	-5
CA (8-7=1)	1
UA (9-7=2)	2
CG (8-6= 2)	2
UG (9-6= 3)	3
AC (-3+12=9)	9
CU (8+1 = 9)	9
GC (-2+12=10)	10
UU (9+1 =10)	10
CC (8+12=20)	20
UC (9+12=21)	21

Fig. 16

As you can see in Fig. 16, dividing the combinations of the first and second bases in the triplet according to density (value) and quality (sign) gives a completely definite grouping after appropriate sorting. Combinations where the third base in the triplet does not matter (property of degeneracy, isoacceptority) are shown in blue.

Combinations where the complex of the first and second bases are shown in red, from the point of view of unambiguity depend on the third nucleobase.

But there are two exceptions to this:

- the Guanine-Guanine (GG) combination on the basis of density-quality indicators should have unambiguity only in combination with the third base.
- the combination Uracil-Uracil (UU), on the contrary, should have the property of degeneracy in the third base of the triplet.

However, the second base of the GG (glycine) triplet is represented by vibrations of the Spleen meridian, which is a symbol of neutrality and balance in TCM. And besides, the Aetheric density of the Spleen is 6 units out of 12 - i.e. is located exactly in the middle in terms of density (but not in quality). Apparently, this property of the second base predetermines another unique property of glycine among all amino acids - it is optically inactive and has no chirality property, i.e. - the glycine molecule is centrosymmetric, which, obviously, predetermines its degeneracy properties in the DNA code.

Considering the contradictions of the set of Uracil in the first (Stomach) and Uracil in the second position (Liver), we notice that the Liver meridian has the smallest Aetheric density, equal to one. Obviously, in this case, a stronger oscillatory process of the third base will predetermine the final result, excluding the degeneracy effect.

One more detail of the DNA codes for amino acids should also be mentioned, which avoided degeneracy and can be encoded by two types of bases at the third position of the triplet - the third base can be either Adenine or Guanine, or Uracil or Cytosine (the combination of Adenine - Uracil or Guanine - Cytosine is impossible). This fact can be easily correlated with the division of nucleobases into pyrimidines (U, C) and purines (A, G), and the physical explanation of the phenomenon was presented above as a consequence of the fact that purines are associated with the expansion phase of the Aether during the work of the corresponding elements, but pyrimidines are active during with the phase of compression.

Exactly the same physics explains a couple of other phenomena of the standard DNA code:

- when we see that leucine is encoded by two sets of the first two bases - UU and CU. There is an affinity for the pyrimidine line, and, in addition, the sum of the densities of the first two bases is 10 and 20 units, i.e. - they have the common integer multiple, which indicates the properties of mutual resonance and predetermination of similar physical peculiarities of the UU and CU sets.

- the second phenomenon that causes a headache in researchers is a change in the properties of stop codons UGA, UAA and UAG when in some microorganisms they begin to encode glutamine or tryptophan. But if we consider that the third base - Adenine and Guanine are included in the group of purines, and their Aether densities have high and similar values (10 and 11), then, from this point of view, the energy balance in the stop codons shifts towards the second and third bases (suppressing the functions of the former), which, apparently, allows the stop codons to act as coders of glutamine and tryptophan.

So, the author believes that the Aetheric hypothesis, used in deciphering the properties of the I-Ching, quite adequately explains the features of the standard genetic code.

2. The second confirmation of the model

Let us now check some remarkable triplets from the point of view of interpretations of the I-Ching and the provisions of TCM. To begin with, let's take the AUG triplet - the start codon that encodes methionine and from which the formation of the polypeptide chain begins during translation.

In our I-Ching model, this triplet has an association with hexagram 58, "The Joyous" and is represented by a combination of the interaction of the following three meridians:

KI	- Kidneys
BL	- Urinary Bladder
HT	- Heart

What are the features of this triplet of meridians from the point of view of the above I-Ching hypothesis and TCM postulates, in addition to the fact that they are a manifestation of the Fire-Minister element - a cosmic synchronization impulse according to the hypothesis of the Doppler origin of the elements?

Firstly, all three meridians have specific qualities of the beginning of a new cycle. The Urinary Bladder is the beginning of the sexagesimal cycle, the Kidney is the beginning of the cycle in the Meng Xi scheme, the Heart (Yang of Wood) is the beginning of the cycle in the traditional Chinese annual calendar.

Secondly, from the point of view of TCM postulates, the Urinary Bladder and Kidneys are positioned as the meridians of the element Water, which is responsible for the functions of the destruction of the old and the birth of the new things.

Thirdly - from the point of view of modern physiology - the genitourinary system (bladder and kidneys), together with the functions of the circulatory system (Heart - increased vascularization (growth of blood vessels) of the fetus) are the main participants in the process of childbearing.

Such a correlation scheme of the presented I-Ching hypothesis is quite consistent with the functions of the start codon.

However, additional evidence can be provided based on other start codons. In some prokaryotes, the start codons are also GUG, AUU, CUG, UUG.

Let's decipher them through the I-Ching hexagrams:

GUG - Hexagram 17 - "Following" (the most eloquent comment indicating the continuation of some process):

KI	- Kidneys
BL	- Urinary Bladder
LR	- Liver

In comparison with the AUG triplet, the Heart meridian is replaced by the Liver meridian - the Yin Wood element in the Doppler model of the meridians, and the Wood element in TCM is a manifestation of the start, the beginning of the process.

AUU - Hexagram 38 - "Opposition" (some controversial event):

GB	- Gall Bladder
BL	- Urinary bladder
HT	- Heart

In this case, the meridians form a consistent harmonious structure of centrifugal meridians, which throws a "bridge" from the end of the previous cycle to the beginning of the next one, starting with the initiator meridian - the Urinary Bladder with an emphasis on the Heart meridian (in the annual calendar cycle it is defined as the first month of the year). The interpretation of the hexagram "Opposition" is probably associated with the suppression of the function of the centripetal meridians, which leads to a certain imbalance.

CUG - Hexagram 45 - "Gathering Together" (also an eloquent comment to start replication):

KI	- Kidneys
BL	- Urinary Bladder
TE	- Triple Energizer

In this version, 2 meridians (Kidneys and Triple Energizer) were arranged around the meridian of the Bladder, and the meridian of the Triple Energizer, as discussed in the Meng Xi scheme, carries the properties of the end of the previous cycle, which was reflected in the sense of the commentary to the hexagram, showing the functions of the connecting link superimposed on the beginning of a new cycle.

UUG - hexagram 47 - "Oppression, Exhaustion" (probably, it meant the depletion of the energy of the previous cycle, which implies the likelihood of the beginning of a new cycle of the succession of processes):

KI	- Kidneys
BL	- Urinary Bladder
ST	- Stomach

Unlike the most common start codon AUG, the stomach meridian is in the third nucleobase, which is probably associated with specific nutritional functions and with the Yang Water element, to which the Stomach belongs in the Doppler model. And Water in TCM is defined as the mover of the processes of decay and nucleation.

In conclusion, to all five variants of start codons, the following conclusion can be drawn - each triplet on the middle, second base has a correspondence to the Urinary Bladder meridian as a manifestation of the beginning of the cycle in TCM. In most cases, the third base is represented by the Kidney meridian, which, according to TCM postulates, is the keepers of vital energy transmitted to the fetus at the moment of conception. In other cases, nitrogenous bases are somehow related to the end of the old cycle and the beginning of a new one.

All of the above-mentioned facts serve as an indication of the reliability of the represented I-Ching model in relation to the standard genetic code.

3. The third confirmation of the model

About some properties in the leader sequence (five prime untranslated region - 5'-UTR) of some bacteria - the Shine-Dalgarno sequence (AGGAGG) is localized in the 5'-UTR of bacteria, which serves for binding of the ribosome and is separated by a spacer from the start codon. Those, we see the AGG triplet repeated twice. This triplet precedes the start codon and is not directly involved in the replication. Let's look at its composition from the point of view of the presented I-Ching model and the interpretation of the corresponding hexagram:

Hexagram number 5 «Waiting»

KI	- Kidneys
SP	- Pancreas
HT	- Heart

The composition of the meridians is similar to the composition of the standard start codon, but in the middle of the triplet, we have the Pancreas meridian. It is this

meridian that determines the neutrality of the AGG codon to the replication process, just as it happens with the properties of glycine, which received the properties of neutrality thanks to natural frequencies of the Pancreas. The interpretation accompanying the hexagram unambiguously indicates the suspension of the process.

4. The fourth confirmation of the model

In this case, we will consider the properties of stop codons, which are represented by three triplets UAA, UAG, UGA:

UAA - Hexagram 44 "Coming To Meet, Encounter"

PC	- Pericardium
LU	- Lungs
ST	- Stomach

The interpretation of the hexagram shows the fact of meeting of the two opposed processes. On the other hand, the composition of the meridians from the point of view of TCM is antagonistic to the two meridians representing the AUG start-codon - the Lungs meridian is in opposition to the Urinary Bladder meridian, the Stomach meridian is in opposition to the Heart meridian (in both cases, Urinary Bladder and Heart meridians are suppressed in accordance with acupuncture rule "day-midnight"). The Pericardium meridian, according to the Wu-Xing law, again suppresses the Heart meridian and the suppression of the Heart meridian prevents the transit of vibrational energy in the cycle from the Urinary Bladder meridian (which carries the function of the beginning of the cycle) to the Heart meridian. UAG is the strongest stop codon among the above-mentioned and causes an unconditional stop of the replication process.

UAG - Hexagram 28 «Preponderance Of The Great»

KI	- Kidneys
LU	- Lungs
ST	- Stomach

The meridians of the Lungs and the Stomach suppress the meridians of the Urinary Bladder and Heart, respectively (they form the energy profile of the start codon) according to the TCM "day-midnight" rule.

The interpretation of hexagram 28 speaks of reaching a certain phase of development, reaching a critical mass with the likelihood of a further negative course of events. But the continuation of the process is not excluded. The

possibility of end-to-end replication is apparently provided by the Kidney meridian, which is central in the start codon sequence.

UGA – Hexagram 57 «The Penetrating»

PC - Pericardium
 SP - Pancreas
 ST - Stomach

The interpretation of hexagram 57 speaks of being in some state and the beginning of the transition to the next phase. From the point of view of the structure of the meridians, the Stomach and Pancreas form the element of Metal at the upper level of the hierarchy. Metal is the phase of the withering of a cyclic process. On the other hand, the Pericardium meridian is a participant in the formation of the next phase - Water of the upper level of the hierarchy in the Doppler model (Pericardium + Triple Energizer). Thus, the UGA stop codon, on the one hand, serves as a manifestation of the end of the process (the end of replication in this case), and on the other hand, it does not exclude the continuation of replication. Obviously, this duality depends on the context.

Duality is also inherent in the very set of meridians associated with the codon, which, on the one hand, mainly suppresses the functions of the Heart with the help of the Pericardium and Stomach meridians and suppresses the Kidneys with the help of Pancreas, but on the other hand, the Pericardium in the Wu-Xing cycle supports the energetics of the meridian oscillations of the Urinary bladder which is the main meridian of the start codon.

Conclusion

The represented association of the genetic code with I-Ching model gives an impetus to the restoration of real physical knowledge, which potentially is capable of creating even synthetic living organisms, indistinguishable in functions from those created by nature evolutionarily. Also, knowledge of this physics is able to save humanity from any manifestation of need, to become the basis of technologies for the harmonious development of life on the planet in collaboration with the surrounding outer space. But, apparently, it will take a lot of effort in applying common sense.

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