



The Interrelationship Between Space-time, Everything in the Universe and Natural Mechanics — Space-time Mechanics

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Abstract: The purpose of establishing the theory of space-time mechanics is to reveal the space-time properties of the compressed mass and energy microscopic mass matter, the extinction and reconstruction properties of the spatiotemporal motion of the expanded mass and energy macroscopic energy matter, and the microscopic macroscopic spatiotemporal mass and energy properties of the basic force. Applying the theory of ultimate goal formation to human production and life can change the unitary structure of energy and material industry, build a highly intensive and synchronized efficient mode, achieve zero emissions and zero pollution, and safeguard the earth environment on which human beings rely. In this paper, by establishing the ideal model method, combining with the ideal experiment method, and comparing the differences between the microscopic material space-time and the macroscopic cosmic space-time, we conclude, summarize and infer. The essence of the universe comes from the space-time motion of matter and energy limited by the speed of light and absolute zero. Movement creates micro and macro space-time with different dimensions. They are either far away from each other, or overlap and overlap with each other. The mass and energy change alternately with the change of space-time, and the disappearance of space-time brings the return of material, mass and energy.

Keywords: microcosmic space-time of matter, space-time mechanics, space-time mass-energy equation, essence of the universe, space-time movement of matter and energy

1. Introduction

For a long time, human beings have tried to observe and study the objective laws and phenomena of the existence of the world's matter through various angles and ways, establish various different theories and physical laws, and verify them through continuous experimental verification, so as to further understand the unknown universe and material world. At the same time, human beings will apply experience and theory to more areas of human life to promote the progress and development of human civilization.

At present, human beings have recognized the vastness and vastness of the universe and the smallness and magic of the quantum in the material world through various scientific and technological means. All this comes from the space-time process under the two different forms of matter and motion in natural mechanics. In recent centuries, with the emergence of modern science, the pace of human exploration of the vast universe and mysterious quantum has been accelerating, from the beginning of the "square earth theory", "geocentric theory" to the "heliocentric theory" and "galaxy theory", to today's real infinite expanding universe, and to the microscopic particles of quantum mechanics. Newton created classical mechanics based on the still universe, bringing mankind into modern science. Einstein, Bohr, Maxwell, Yang Zhenning and other scientists have created scientific theories such as relativity and quantum mechanics based on the relative motion of matter, revealing the macro universe and the micro internal material world for mankind.

The author has always been thinking: How does the material force of motion form? Where did you come from? Why would space-time be created to form a vast and infinite universe and a small mysterious quantum world? What is the real meaning of space-time in the process of material mechanics? Why does the expansion of space accelerate? Is the speed of light really the ultimate speed of cosmic matter? Why is there absolute zero? Is there any commonality between classical mechanical relativity and quantum mechanics? Based on the common properties (space-time) of the natural mechanics of matter, a new mechanical theory is established, and it is named "space-time mechanics", or "space-time mechanics" for short. It is hoped that it can help human beings to explore the universe, play a certain role in the application of human energy materials, and provide scientific and effective theoretical basis and solutions for the stability of the earth environment, space-time mechanical environment on which human beings depend.

2. The necessity and significance of the creation of space-time mechanics

(1) Look at everything in the world objectively from a philosophical point of view. There must be a place of birth, a time

of birth, a place of birth and a process of growth until the end of life. Is there the same or similar way of life in the universe? The answer is yes. If people regard everything in the universe as a mechanical process with life, then there must be a life cycle. Because human beings are also from all things in the universe, and are so small and short. The life process of all things in the universe in space-time must be described in a form.

(2) Look at everything in the world from the perspective of classical mechanics and relativity. According to the current prediction of scientists, the age of the universe is 13.8 billion years, and the radius of the universe is 96 billion light years. The universe is accelerating to expand, completely surpassing the speed of light, which violates the basic principles of traditional mechanics, and needs to see the world from a more comprehensive perspective. Therefore, it is very necessary to establish a new theoretical system of space-time as the general mechanics.

(3) From the perspective of time space and material formation, time space is the basis of material existence. Without space-time, there would be no basic conditions for the formation of matter, and without the movement of matter, there would be no space-time. For a long time, scientists have ignored the importance of space-time mechanics, and regard space-time as the process attribute of material motion mechanics. In fact, the mechanical property of space-time itself is much higher than that of a single material. Only by standing at the height of the mechanics of space-time can people see the complete true face of the universe and understand the true meaning of space-time. Therefore, it is very urgent and necessary to establish the theoretical system of space-time mechanics.

(4) From the point of view that human beings can survive for a long time, the progress of civilization has increased the frequency of human activities and accelerated the demand for energy materials. At present, industrial energy application efficiency is low, the use time of production materials is short, and the earth environment is seriously damaged and polluted. Only more than 200 years of industrial civilization has destroyed the structural stability of space-time mechanics on the earth's surface, and is intensifying the loss of self-repair ability. The result directly threatens the life of the earth and the survival of mankind. From the perspective of improving the efficiency of energy use, it is imperative to establish a highly efficient and zero-emission industrial system for the application of energy materials that is consistent with the principles of natural space-time mechanics and is based on the first nature.

3. Definition of space-time mechanics

Research scope: the birth process and life track of mass matter in the micro time space; The movement of mass matter in the macroscopic energy time space and the process of disappearance and reconstruction of space-time; The formation process and life movement track of basic forces (internal gravity, external gravity, strong force, weak force, magnetic force) in micro and macro time space; The mechanical relationship and overlapping process between the compression and expansion of micro-mass matter space-time and macro-energy cosmic space-time; The matter, mass and energy universe is limited by the space-time motion process and cycle law at the speed of light and absolute zero.

3.1 Micro space-time definition of matter

The universe originates from the formation of elemental matter. The structure of the element is that the nucleus occupies more than 99.8% of the atomic mass and energy, and only occupies less than 0.2% of the space of the atom itself. The electrons with less than 0.2% mass energy occupy more than 99.8% of the space and do high-speed circular irregular motion under the action of time. This structure is the same as that of the solar system, the Milky Way system and other cosmic objects. If people regard the sun as atomic nucleus, the sun also occupies more than 99.8% of the mass of the solar system, only occupying less than 0.2% of the space of the solar system. Planets with a mass of less than 0.2% of the electron occupy more than 99.8% of the space and do high-speed circular motion under the effect of time. The only different high-speed circular motion is more regular. This is also the root of the difference between the space and time of microscopic elements and the space and time of macroscopic universe, and the slight difference in mechanical properties. That is to say, all mass matter is a microcosmic space-time process in which its mass energy is compressed, and forms and dies simultaneously with matter.

3.2 The speed of light and sound waves are the important basis for measuring the space-time dimensions of macro and micro matter

The speed of light is an important basis for human beings to recognize the infinite space of the macro universe. Human beings have reached a consensus. Next, we will focus on the sound waves that measure the space-time dimension of microscopic matter. Cosmic spacetime begins with the expansion of matter ejected beyond the speed of light. At this time, the material world is chaotic. With the passage of time, under the strong gravitational force, the space-time dimension began to be compressed to form a relatively stable micro-element material space-time. The first element formed is hydrogen, the gas with the lowest atomic weight. The materials formed in the early stage are gaseous elements with low density and very slow

sound wave transmission speed. In recent years, the sound wave heat conduction of matter has been confirmed by scientists in many ways. Then the sound wave must be the smallest energy transmission unit of the space-time measurement dimension of the micro-element matter, and it is also the basis for the long-term existence of the mass matter. The conductivity of the element material is the metastable dimensional form of the material in the process of space-time compression.

4. Conservation law of space-time symmetry

The existence of space-time in the universe is the result of the spatiotemporal differentiation of material mass and energy into the spatiotemporal movement of micro-mass matter and macro-mass matter and energy. It is the result of the movement of material mass and energy limited by the constant speed of light and absolute zero degrees. According to the law of mass and energy conservation, the mass and energy conservation in the universe and space-time is synchronous and symmetrical conservation of space-time. Follow the principle that the size of space-time in the same dimension remains unchanged.

The expansion of the macroscopic observable universe comes from the reconstruction and expansion of space and time within the same dimension. The visual sense universe is limited by the result that the speed of light and the space-time cannot be observed simultaneously. There is a process of space-time being compressed and disappearing simultaneously in the observable universe.

4.1 Definition of space-time mechanics

Time is the basic time process unit of material and energy activities to form microscopic material space-time and macroscopic cosmic space-time. People have always regarded time as the product of the movement process of matter, which is an irreversible process. Under the condition of space-time mechanics, time also has the invisible anti-time process of condensed matter. The appearing time is infinitely expanded, and the invisible time is infinitely contracted. The negative time process can form a cross axis between the time that people can see and the synchronous time. The negative time process and the time seen by people form the positive and negative ends of the horizontal axis of time, and the space under synchronous time forms the vertical axis of the observable universe and the unobservable universe. The observable universe has a positive axis, and the unobservable universe has a negative axis. The formation time of the Milky Way galaxy of human existence must be the product of synchronous existence with the age dimension of the observable universe. Observable space-time exists at a certain point in the arc plane with a radius of 13.8 billion light-years in two positive axis regions of space-time. When people observe the universe from any angle, they only see the universe in the plane of spherical arc. Because of the existence of light, people can observe its end. With the passage of time, different space-time of the internal matter of the same dimension has been formed, such as the post-formation process of the solar system in the Milky Way. In the same dimension, the formation of galaxies in macroscopic space-time is like the expansion of bubbles into new space-time. Therefore, it is not difficult to reveal the reason why the universe observed by human beings is so flat and accelerating. Because they all exist in space-time with the same ground state and the same dimension. In different regions, there are constantly new spatiotemporal formations, and at the same time, expansion does not exist at all. Humans can only feel the existence of light, and cannot observe the process of space-time compression, merging and extinction. The universe is vast and magical. The existence of human beings in the universe is magical. It is more magical to know the universe and protect human beings.

4.2 Definition of time space and mechanical space

Space is the basic space in which material and energy activities form microscopic material space-time and macroscopic cosmic space-time. Process units exist synchronously with time. The macro universe is not a single process of space expansion, but also a process of space merging, compressing and dying. It can also establish a cross axis close to time. The difference is that the expansion space is very large and the compression space is very small. The existence of space is a process of mutual separation or overlapping, which also includes between visible macroscopic space-time and invisible macroscopic space-time.

4.3 Definition of space-time mechanics

The microscopic space-time and the basic material unit exist simultaneously in the mass matter, which is the most basic material space-time unit between the microscopic mass matter space-time and the macroscopic energy universe space-time. Micro-mass matter is far away from each other, or superimposed and overlapped. Macro-energy can be observed that space and time in the universe are far away from each other, or superimposed and overlapped. Macro-energy observable cosmic spacetime and unobservable cosmic spacetime are far away from each other or are superimposed and overlapped. They are both mutually shielded and interrelated. Similar to the relationship between elements and matter, human beings exist in the lower dimension of space-time formed in 13.8 billion years, and cannot directly see the macroscopic space-time of

other dimensions. The space-time of the adjacent ground state of the tree-like ring start to overlap with each other. With the change of the material quality can drive the space-time of different dimensions, the layered structure is partially torn to form a cross-dimensional superposition, which is similar to the chemical combination between elements and substances. We can see locally different dimensional space-time in the observable universe through the superposition of this cross-dimensional space-time. The internal material form and physical laws in different space-time dimensions are also different, similar to the existence of periodic table attributes. But the basic material properties and physical laws follow the mass-energy equation and the space-time mass-energy equation. The decisive factor existing in the space-time dimension of the macro universe is the ground state of the macro environment. Different macroscopic ground states form different dimensions of macroscopic space-time, and there are new space-time formation in different dimensions of space-time, which leads to the overall expansion of the original space-time combination. At the same time, the old space-time merge and bring compression and extinction. Under the condition that the same space-time are synchronized and the same macroscopic ground state dimension is the same, the mass and energy are conserved and the space-time symmetry are mutually conserved.

4.4 Definition of mass density radius in space-time mechanics

Mass can be obtained in two different ways: gravitational rest and motion. It is the quantity of matter, and it is a common physical quantity to describe the mechanical properties of matter. It cannot reflect the space-time properties of microscopic matter. Therefore, in space-time mechanics, mass only represents the total quantity of mass matter under the current space-time radius. The properties of reaction space-time are the density and radius of matter. Density is a measure of the degree of mass division under different radii of mass energy being compressed into microscopic mass matter space-time and macroscopic energy cosmic space-time. The radius is the effective space radius that the mass and energy of matter are compressed to form the micro-mass matter space-time, or the macro-energy cosmic space-time drives the mass matter to move at the speed of light.

5. Invisible and unobservable space-time world hidden by black holes

In every black hole, there is a space-time that is different from the observable dimensions of the universe. The space-time dimensions under different black holes are also different. The black hole itself also has the phenomenon of different size and formation time. Most black holes connect two dimensions of space and time. Of course, there is also cross-dimensional blending in the universe, which is relatively rare. It is difficult to find in observable space and time. The factor that determines the invisible and unobservable space-time dimension is the macroscopic ground-state element quantity. The amount of symmetry between the macroscopic ground-state element quantity and the element material is the same, so it is not visible that the macroscopic space-time is a multi-dimensional space-time with different macroscopic ground-state element quantity. What is the space and time of microscopic mass matter under invisible macroscopic space and time? What are the material properties? The answer is hidden in the periodic table of elements with symmetrical macroscopic ground state elements. There is the same matter as human existence in space-time, and the more existing form is invisible dark matter. The dimensional spacetime with large macroscopic ground-state element quantity mainly exists in the energy form of mass and energy process, that is, invisible dark energy. There is a symmetry and conservation relationship between the mass and energy of space-time matter and the external energy form between the observable and unobservable spacetime universe. The universe is a magical world in which the superposition and overlapping of space-time from microscopic mass matter space-time to visible macroscopic energy space-time and then to invisible microscopic mass matter space-time and macroscopic energy space-time are constantly disappearing and recreating infinite cycles. Human beings are confined to the visual macro world dimension. Only when we stand at the height of space-time mechanics to understand the process of material and space-time cognitive mechanics can we see clearly the world of human existence. Therefore, in the mechanics of space-time, the theory of the Big Bang creating the universe is not tenable and non-existent. It is just one of the cycle processes of the singularity black hole creating the initial cosmic space-time. And it has always existed in the process of mass and energy cosmic space-time movement.

The ground state is the basic physical element that constitutes the space-time dimension of microscopic matter and macroscopic energy. Next, we will talk about the macroscopic ground-state element quantity. The formation process of macro ground-state element quantity is closely related to the formation process of macro spatiotemporal dimension internal element material. The symmetry between them is opposite. When the initial macroscopic spatiotemporal ground-state element quantity is the largest, the spatiotemporal dimension is the highest. With the passage of space-time, the movement of matter in space-time, the formation of new elements, the formation of macroscopic space and time, and the macroscopic ground state elements gradually become smaller. It is the basic material element that distinguishes the dimensions between macroscopic visible space-time and invisible space-time. Macroscopic ground-state quantum is a very stable physical form

of matter, which is distributed in every corner of the macro vast space and time. The properties of energy density and intensity of macroscopic ground-state elements are also different, resulting in different macroscopic space-time dimensions. They can be combined with each other, which also allows people to see completely different dimensions of space-time in the visible universe. For example, the pillar of life is a high dimensional macroscopic space-time, a low dimensional macroscopic space-time near absolute zero in local areas, and a space-time with few observable substances in local areas.

6. space-time mass-energy equation

6.1 Origin of space-time mass-energy equation

The space-time mass-energy equation is a transformation from Einstein's mass-energy equation. The condition of this equation is the energy released by matter moving at the maximum speed of light in the universe in a vacuum environment. Such conditions do not exist in the real material world. Therefore, it is necessary to attribute the space-time mass-energy equation. As previously described in the article, the space-time property of the microcosmic world of matter takes sound wave as the energy transmission medium, so there is a time difference between sound wave and the speed of light, so the time of the space-time mass-energy equation is formed. There are two forms of mass: gravitational mass and kinetic mass, and at the same time there is volume, that is, space attribute. Assuming that the matter in the universe is spherical in structure, the way of reacting matter will change into density and space radius. So the concept of space appeared. The absorption process of material energy is inversely proportional to the square of the specific surface area. The space-time mass-energy equation is introduced synchronously, and the environmental temperature of the material is added to the space-time equation. Thus, a complete space-time mass-energy equation is generated.

6.2 Formation process of space-time mass-energy equation

Einstein equation of mass and energy

Where: E: Energy unit of matter: J

M: Mass unit of substance: kg

C: Unit of light speed is: m/s

Transformation process of space-time mass-energy equation

The heat exchange of substances is proportional to the square of the surface area of substances, that is,

$$E_0 = E / (4\pi r^2)^2,$$

$$M = 4/3\pi r^3 \rho$$

$$s = c/c_0$$

$$E_0 = E / (4\pi r^2)^2 = MC^2 / (4\pi r^2)^2 = 4/3\pi r^3 \rho C_0^2 C^2 / (4\pi r^2)^2 C_0^2 = C_0^2 \rho C^2 / 12\pi r C_0^2$$

$$= C_0^2 \rho S^2 / 12\pi r = C_0^2 S^2 P / 3V$$

Temperature can cause energy change, so the above equation is brought into temperature T

$$E_1 = C_0^2 S^2 TP / 12\pi r$$

$$E_1 = C_0^2 S^2 TP r^2 / 16V$$

E_0 : The space-time mass and energy of matter at rest at absolute zero; Unit: j/m³

E_1 : The space-time mass and energy of matter in motion; Unit: j/m³

C_0 : Internal acoustic velocity at material density; Unit: m/s

C: Speed of light; Unit: m/s

P: The current material density exists in space-time; Unit: kg/m³

S: There is internal relative and acoustic velocity mass and energy time under the current material density in S time space; Unit: s

T: temperature: the internal energy environment temperature of the current material in the time space; Unit: C₀

R: Effective radius under material density in time space; Unit: m

V: Volume under material density in current time space; Unit: m³

π : Ratio of the circumference of a circle to its diameter

6.3 Meaning of space-time mass-energy equation

The space-time mass-energy equation reveals the most basic mechanical laws of the mass-energy universe from microscopic mass-matter space-time, macroscopic energy-universe space-time, and invisible space-time. When the time element in the space-time mass-energy equation is eliminated, the micro-mass space-time of different dimensions is convenient for the corresponding macro-energy cosmic space-time to be formed and stored in the macro-space-time simultaneously. The

current physical science is based on the macroscopic mechanics with the speed of light as the basic energy transmission mode and the microscopic particle mechanics represented by quantum mechanics. Without the mechanical concept of space-time, the resulting physical science cannot be complete, and the observation and cognition of the universe is bound to be limited.

6.4 Verification of space-time mass-energy equation

One theory and one equation need to be verified by experiments. The space-time mass-energy equation is the basic mechanical process in all space-time, and all the mechanical phenomena in space-time can be used as a verification comparison. For example, why the strength of nanomaterials is high, why the stars have such high energy, why the energy needed by human cities is large, and so on, including all the cosmic space-time mechanics phenomena.

7. The source of the basic forces of the microcosmic material space-time world and the macroscopic universe world

7.1 The power, quality and energy of God

All the basic forces are derived from the compressible mechanical form of the mass and energy of matter in space-time, that is, the initial mass and energy of matter as described by Einstein's general theory of relativity. If it is inevitable that the initial mass energy exists in the universe, and its source cannot be determined by human current knowledge, then it is called the force of God.

7.2 The birth process of basic forces

Basic forces are strong, weak, magnetic and gravitational forces. Its essence is derived from the action process of material formation in space-time created by the source force. How can the source force differentiate into strong force, weak force, magnetic force and gravity? The answer must lie in the process of material birth creating space-time. If the speed, time and temperature in the space-time equation are classified into one class, the difference between the speed and the speed of light is compensated by time and temperature. Since the speed is measured by the speed of light, the other two factors, density and radius, play a decisive role in the differentiation of source forces. In this way, the formation process of the basic force becomes clear.

(1) Internal gravity. It exists in the interior of matter. The external energy transmission mode is different. There are internal gravity and external gravity in gravity. Internal gravitation is the mechanical process of matter compressed in space-time, which follows the space-time mass-energy equation. Internal gravity means strong, magnetic and weak forces at different radii. Of course, the situation of black holes is different, because it has no time and temperature.

$$E_2 = C_2^2 S_2^2 T_2 P_2 / 12\pi r_2$$

E_2 : Internal gravity; unit: j

C_2 : The speed of gluon, electromagnetic wave and acoustic wave existing in the current material; unit: m/s

S_2 : The formation time of the internal acoustic velocity of the current material compared with the speed of light; unit: s

T_2 : Internal temperature of substance; unit: c

P_2 : Density of current substance; unit: kg/m³

r_2 : Radius of current material; unit: m

π : Ratio of the circumference of a circle to its diameter

Gravitational equation in black hole

$$E_2 = C^2 P_2 / 12\pi r_2$$

E_2 : Internal gravity of black hole; unit: j

P_2 : Internal density of black hole; unit: kg/m³

r_2 : Inner radius of black hole; unit: m

π : Ratio of the circumference of a circle to its diameter

(2) External gravity is a way for matter, space-time to release mass and energy to external space with the acceleration of light, so there is no time constraint. People have always thought that gravity is very weak, but in fact it is very strong, because the coverage space is large and the average value is small. External gravitation itself is a phenomenon of matter and energy transmission that exceeds the speed of light, and graviton is actually a photon accelerated by mass and energy. Quantum communication is actually the transmission process of external gravitational energy information. Of course, it can exceed the speed of light but cannot exceed the acceleration of the speed of light due to the influence of the existence of the ground state of space-time matter in the universe.

$$E_3 = C_3^2 S_3 T_3 P_3 / 12\pi r_3$$

E_3 : External gravitation

C_3 : Speed of light in ground state; unit: m/s

S_3 : The time difference between the speed of light and the speed of light in the ground state; unit: s

T_3 : External space temperature of substance; unit: c

r_3 : External space radius of material; unit: m

Affected by the existence of environmental matter in space and time

Strong force is the result of binding matter with gluons by the basic particles in the atomic nucleus under the internal environment of microscopic matter space-time.

$$E_4 = C_4^2 S_4 T_4 P_4 / 12\pi r_4$$

E_4 : Strength; unit: j

C_4 : The speed of gluons in the nucleus; unit: m/s

S_4 : Time difference between gluon speed and light speed; unit: s

T_4 : Internal space temperature of atomic nucleus; unit: c

r_4 : Internal space radius of atomic nucleus; unit: m

(4) Magnetic force and weak force are the process of conducting energy by electromagnetic wave and sound wave after the internal space of microscopic matter atoms is compressed. The two forces are similar in nature, and the way of energy transmission is different. The speed and time in the space-time mass-energy equation and the magnitude of the energy to eliminate the time factor are different. Of course, the space-time environment are not the same. Weak forces can only exist in the space and time of microscopic matter. Magnetic force can exist not only in the interior of microscopic matter space-time, but also in the exterior macroscopic universe space-time.

$$E_5 = C_5^2 S^2 T_5 P_5 / 12\pi r_5$$

E_5 : Magnetic force; unit: j

C_5 : Electromagnetic wave velocity existing inside the current material; unit: m/s

S_5 : The formation time of the electromagnetic wave velocity inside the current material compared with the speed of light; unit: s

T_5 : Internal temperature of substance; unit: c

P_5 : Density of current substance; unit: kg/m³

r_5 : Radius of current material; unit: m

π : Ratio of the circumference of a circle to its diameter

Weak force

$$E_6 = C_6^2 S^2 T_6 P_6 / 12\pi r_6$$

E_6 : Weak force; unit: j

C_6 : The velocity of internal sound waves existing in the current material; unit: m/s

S_6 : The formation time of the internal acoustic velocity of the current material compared with the speed of light; unit: s

T_6 : Internal temperature of substance; unit: c

P_6 : Density of current substance; unit: kg/m³

R_6 : Radius of current material; unit: m

π : Ratio of the circumference of a circle to its diameter

8. The impact of space-time mechanics on the industrial application of human energy materials and the earth's environment

8.1 Current situation of energy and material industry

Looking at the current energy and material industry in terms of space-time mechanics, it is an independent process of space-time mechanics with low efficiency and accelerated expansion. It lacks the connection and circulation of energy applications, and does not maximize the retention of limited energy in mass substances. According to the principle of symmetry space-time, the uncontrolled emission of industrial activities for more than 200 years has led to the compression of the external space-time mechanical environment of the earth and the gradual loss of self-repair ability.

8.2 Restructuring the energy and material industry to achieve zero emission is the fundamental solution to the problem

Reconstruct the current energy and materials industry based on the theory of space-time mechanics, and unify the ap-

plication process of energy and materials industry. Complete the application and synchronous regeneration at the same time. Of course, first of all, the efficiency of the single energy material industry should be completely improved. Unification is not the accumulation of all energy and material industries, but the interconnection and mutual integration of all energy and material industries. Only in this way can people superimpose their application processes in different forms to achieve zero emission and zero pollution in the energy and material industry. The fundamental of efficient energy application lies in the effective mass-energy compression process in which the macro-energy spatiotemporal reaction is in the micro-mass matter spatiotemporal. The efficient use of energy is the fundamental solution to the problem that the current industrial civilization of mankind has caused the compression of the earth's space-time mechanical environment and threatened human survival.

8.3 Create a zero-emission and zero-pollution space-time mechanics application platform for energy and materials industry

Create a world-wide application platform of zero-emission and zero-pollution space-time mechanics in the energy and materials industry. Seek cooperation around the world and jointly carry out in-depth research and promotion of application, so that this major scientific and technological breakthrough that can change the course of human history can be widely promoted and applied as soon as possible. Complete the real and effective protection of the earth environment on which human beings live.

First of all, accelerate the synchronous integration between energy and material industries, gradually realize zero emission of energy and material industries, and absorb more support from governments, organizations, enterprises, personnel and funds. Accelerate the pace of research and industrial restructuring of energy and materials industry, and realize zero emission of energy and materials industry as soon as possible. It is my lifelong pursuit to make a modest contribution to human civilization.

9. Summary

The essence of the universe comes from the separation and merging process of mass and energy under different space-time conditions. When the first microscopic space-time element compressed by external gravity, hydrogen, is formed, the macroscopic cosmic space-time ground state is formed at the same time, and the basic force, internal gravity, strong force, magnetic force and weak force are formed at the same time. Black hole is the end point of matter returning to mass and energy, and also the starting point of releasing mass and energy. Black holes are divided into singularity black holes and black holes connected with different ground states. Singularity black hole is a black hole that is connected with all dimensions of space-time. It is the creator of the highest dimension of micro-material space-time and macro-space-time in the initial high ground state. It has the largest mass and energy, and the smallest space-time. With the formation of a new singularity black hole, the original singularity black hole will lose its properties and return to normal. Each black hole is connected with the outside multi-dimensional space-time with different ground states. With the passage of time, the space-time process of mass and energy moving with the acceleration of light is continuously compressed to form the microscopic element material space-time. Macroscopic space-time returns to the speed of light, and with the deepening of the compression process, the material life of elements has come to an end. White dwarfs, red dwarfs, neutron stars, black holes and singularity black holes are formed. The universe is a space and time from multiple microscopic matter to macroscopic cosmic space and time, and then to invisible multiple microscopic matter space and time. It is not visible that macroscopic multi-dimensional macroscopic space-time overlaps with each other to form an infinite cycle of life. The only constant in the universe is space-time. It can be considered that it does not exist, and at the same time it is constantly forming and disappearing. space-time mechanics is the mother of all physical sciences.

Physical science has always been based on intuition, ignoring the process of the formation and existence of mechanics itself. Always put space-time at the second place of the mechanical process, and think that space-time is the product of the mechanical process of material movement. On the contrary, space-time are the main bodies that create the basic force, the space and time of microscopic mass matter, and the space and time of macroscopic energy universe. They are the basis of the life movement cycle of the space and time of mass energy universe, and the root mechanics of all physical sciences. Only by putting it in a more prominent and primary position and standing on a higher platform of space-time to understand everything in the universe can physics have a greater breakthrough and development, and the understanding of the universe and the understanding of the universe can be more in-depth.

Only by following the laws of nature, gathering wisdom, seeking cooperation, and seeking development, can we thoroughly solve the problems existing in the current energy industry, complete fundamental changes and improvements in the efficiency of the energy and materials industry, achieve zero emissions and zero pollution, maintain the stability of the space-

time mechanics of human survival, and solve the basic survival of mankind, can we have greater space-time for progress and development.

If Newton's classical mechanics has opened the window for human beings to understand the macro universe, Einstein, Bohr and other scientists' quantum mechanics have opened the ground window for human beings to understand the micro world. Then the mechanics of space-time is to establish a door between heaven and earth, so that people can see clearly the life track of matter in space-time and the law of mass and energy cycling.

Statement

This research topic is an original basic theory independently completed by myself, which is not restricted by any organization or individual. The quoted theory and related application research must be approved by me.

The space-time mass-energy equation is one of the greatest equations invented by human beings. It reveals the motion process of mass and energy in space-time and the causal relationship between mass and energy. It provides a strong theoretical support for the improvement of the efficiency of the industrial application of energy materials for human beings, and is also the primary problem that human beings are currently facing to solve. It is hoped that all countries, governments, organizations, enterprises, personnel and capital will participate in the research, development and application, and see the final realization of zero emission in the energy and materials industry in their lifetime.

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