New theoretical system of physics in the 21st century

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Abstract: In 2000, the author published a new discovery about the same-sex charge produced by friction of the same substance at the ninth electrostatic academic conference of Chinese physical society. For this important new experimental discovery, the author puts forward a new understanding of "positive and negative charges" and finds a new theory to explain all electrostatic effects. Based on the subversive new understanding of "matter", "entity" and "heat energy", a new understanding of "particle charge dynamic atomic model" is initiated. It is clarified that the relationship between "entity" and "heat energy" is the root of the existence of gravitation and repulsion between matter, The law of equilibrium distance between gravity and repulsion is put forward. This paper reveals the causes of the formation of the earth's gravity and many phenomena of attraction and repulsion force in the universe and so on. In the fields of gravitational field, magnetic field, electric field and so on, a series of important scientific problems have been revealed! The establishment of the new theoretical system provides a new vision for solving "all physical problems"! The new theoretical system consists of six parts: the first part introduces the reasons for the establishment of the "new theoretical system", the second part proposes a new basic epistemology of the material world, the third part is a new epistemology of the gravitational repulsion field, the fourth part is a new epistemology of the magnetic field, and the fifth part is a new epistemology of the electric field, and the sixth part expounds the scientific significance of the new theoretical system. Starting from a new perspective of the basic composition of "entity" and "heat energy" in the material world, this paper makes a new understanding of matter, entity, heat energy, atom, element, gravity, repulsion, magnetic field and electric field, Established 21st century physics new theoretical system, Material world: "entity" and "heat energy" constitute "unified field theory". Scientific research needs a new vision to expand the subjective human thought's understanding of the objective nature. The establishment of this new theoretical system may lead to a new physics revolution in the 21st century.

1. Part I: Reasons For The Establishment Of The New Theoretical System
With the rapid development of the earth's civilization, human beings have turned their eyes to the depths of the universe. In the 21st century, whether human beings can realize the interstellar voyage depends on the breakthrough development of scientific theory. The author published a paper on "the revolution of basic physics research will usher in a new era of interstellar space vehicle research" [1], hoping that human beings can go further on the road of interstellar voyage!

At present, the basic theory of physics is based on the gain and loss theory of electrons. However, according to the author's research for many years, the phenomenon of "different charge produced by friction of different materials" is one-sided. In fact, the same material friction will produce the same charge, so the theoretical system based on one-sided experimental phenomenon is necessarily unscientific. Based on these new experimental phenomena, the author puts forward a new viewpoint.
This paper is the follow-up of the author's monographs "new vision of physics research in the 21st century" [2], "revealing the truth of Natural Science in the material world" [3] and "revealing the cause of gravity formation" [4]. The author systematically reviews the "new theoretical system of Physics" which has been studied for 31 years! We hope to find a new way for human beings to seek the truth of natural science!

Historically, Professor E. Edlund, a physicist at the Swedish Academy of Sciences, had different views on the understanding of charge internal dynamics[5]. Since professor E. Edlund did not find the same-sex charge produced by friction of the same substance at that time, his understanding of the dynamic nature of the charge was abandoned. In fact, the mainstream "electronic gain and loss theory" that dominates our thinking can not stand up to careful scrutiny. At present, The generation of triboelectrification is considered to be the loss of some extranuclear electrons in the friction process of one substance, and it is actually unreasonable for these electrons to be obtained by another substance.

First of all, the atoms are very small, and the height of the superposition of two million atoms is about the same as the thickness of one page of an ordinary book. No one and no instrument in the world can master the micro force friction technology that only erases the electrons outside the ultra-small atomic nucleus without damaging the atomic nucleus. In the triboelectrification experiment, the greater the friction force, the faster the friction, the stronger the static electricity, which will cause thousands of atoms to fall off. Because the atom is too small, the diameter of the atom is only about one millionth of a millimeter, the strong friction can not only lead to the fall off of electrons outside the nucleus. At present, the micro force friction technology that only erases electrons on an atom with a diameter of only one millionth of a millimeter is difficult to achieve at the level of human technology. The micro force friction technology that only erases electrons on an atom with a diameter of one millionth of a millimeter is not inferior to the technology of human landing on the moon. Therefore, the theory of triboelectrification caused by the gain and loss of electrons is difficult to realize in practical experiments! There is a serious gap between theory and practice, and the gain and loss theory of electron lacks experimental support.

Secondly, in the past experiments, we only pay attention to the phenomenon of opposite charge produced by friction between different substances, and we do not pay attention to the phenomenon of same-sex charge produced by friction between the same substances. The reason is that the theory of gains and losses of electrons fetters our thinking and leads us to a wrong direction. We are always doing the experiment of friction and electrification between different substances, and abandoning the experiment of friction between the same substances. The fact that making the same matter friction to produce the same-sex charge is extremely easy to find has never been recognized. The charge of the same-sex charge generated by the friction between the same substance is not generated in a special environment or in a certain substance alone, but the objective law commonly existing in the same substance (refers: to the substance that is electrified by friction). It is this fact that goes against the theory of electron gain and loss. Wrong theory will lead to science's misdirection, which is not conducive to the discovery and development of new science.

For a long time, in order to maintain the theory of gain and loss of electrons, the physics circle only pays attention to the phenomenon that different substances produce different charges by friction, but ignores the phenomenon that the same charges are produced by friction between the same substances, so that the physical laws are based on one-sided practical phenomena, without a comprehensive objective understanding, which leads to a series of deviation of subsequent understanding of truth Wrong way of knowing. With the in-depth study of physicist E. Edlund's idea of "charge essence dynamics", we will be surprised to find that it can not only explain the experimental phenomenon of the same-sex charge produced by the friction of the same matter, but also find a new theory to explain all the electrostatic effects , thus establishing a "new physical theoretical system" and revealing many major scientific problems of human understanding of the material world. It includes the discovery of the causes of gravity. the solution of these problems greatly exceeds the interpretation ability of existing theories [2]. This paper has solved a series of major scientific problems that perplex the development of human science.
The new theoretical system of physics introduced by the author, It's been a long 31 years for the author (1989-2020) theory and Experiment The study of Process! 31 years in a row has published many papers, In July 2005, published the monograph "new vision of physics research in the 21st century" [2]. In 2020, the establishment of a new theoretical system has finally completed [1-4].

2. Part II: New Basic Epistemology Of The Material World
In 2000, the author published a new discovery on the experimental phenomenon of the same-sex charge produced by friction of the same substance at the ninth electrostatic academic conference of Chinese Physical Society [6-7]. In view of this important new experimental discovery, the author puts forward a new viewpoint different from the "electron gain and loss theory" to explain the generation of "positive and negative charges", and explains this new experimental phenomenon with a new viewpoint. Then through the new understanding of "matter", "entity" and "heat energy", we have a new thinking of "atomic model", and get a new "particle charge dynamic atomic model". According to the new understanding of "particle charge dynamic atomic model", in the following part of the understanding of the universal attraction and repulsion of matter, it is clarified that the relationship between "entity" and "heat energy" is the root of attraction and repulsion between matter. The law of equilibrium distance of attraction and repulsion between matter (atoms, stars) is put forward, which reveals the cause of gravity and many phenomena of attraction and repulsion in the universe.

The following is the author's highly summary of the core idea of "new theoretical system of physics in the 21st century": ① The material world is composed of two basic types of "substance attribute" of "entity" and "heat energy". ② entity and thermal energy have the inherent characteristics of combination, and the combination of entity and thermal energy forms substance. ③ "Heat energy" exists objectively and truly in the material world. Heat is not made by motion. ④ There are different entities in the material world. Different entities are arranged in the order of the periodic table of elements. ⑤ "particle charge dynamic atom model" is the reason for the formation of "atomic material world". ⑥ The new basic epistemology of the material world mainly includes the new epistemology of "the material world is composed of entity and heat energy" and the new epistemology of "particle charge dynamic atom model".

2.1 The new epistemology of "the material world is composed of entity and heat energy"

2.1.1 New understanding of "substance, heat energy and entity":
The understanding of "matter": There are two basic types of the material world: "substance attribute entity" and "substance attribute heat energy ". Matter is composed of "entity" and "heat energy". The combination of them can produce the structure of atomic force and synthesize matter. That is to say, the combination of "entity" and "heat energy" can produce the atomic structure and become the "matter" with atomic force structure. Note: "material property" refers to the existence of material property, but has not yet formed the state of material, They are the components of matter.

Understanding of "thermal energy": The concentration of "thermal energy" is expressed in terms of temperature. The higher the temperature, the greater the concentration of "thermal energy". There is 3K thermal energy in the vacuum of the universe, which exists in nature. Heat energy is not created by movement. The appearance of heat energy in material movement is just a phenomenon that highlights the hidden heat energy in material.

Understanding of "heat energy has two transmission characteristics": One is the high-pressure heat energy, which propagates in the low-pressure heat energy according to the "voltage characteristic mode", that is, the current and electromagnetic radiation propagate at the speed of light. This is the propagation characteristic of "high pressure and strong heat energy". That is to say, the "mode of voltage characteristic" propagation of light speed is the unique propagation characteristic of "high voltage and strong heat energy". The other is that when the low-pressure heat energy propagates in the
high-pressure heat energy, heat energy it propagates slowly in the high-pressure heat energy according to the "concentration diffusion mode".

New understanding of "entity": An element represents an entity, and different elements represent different entities. In order to distinguish different entities, the names of elements can be added before entities, such as "iron entity", "copper entity", "gold entity", etc. there are different "element entities" in the material world. When various "entities" as different "element entities" are combined with different concentrations of "heat energy", various "element entities" have different "saturated heat energy" and accordingly generate different "saturated heat energy voltage value". In this paper, the "saturated thermal energy voltage value" in various "entities" is called "standard voltage energy value". In the "neutrons" of each "entity", there is a "standard voltage energy value", which represents the different saturation characteristics of different "entities" combined with thermal energy. The characteristic of "standard voltage energy value" of each "entity" is that each "entity" has different fixed emission voltage value when emitting heat energy. The "standard voltage energy value" of each "entity" determines the emission voltage intensity of its "emission magnetic field". This is the fundamental reason that every "element entity" has the sign of roentgen radiation phenomenon.

2.1.2 New understanding of "periodic table of elements":
With the increase of the permutation order of the elements in the periodic table, the "saturated thermal energy" of the "element entity" increases in turn, and the "saturated voltage" of the "element entity" increases accordingly. Each material element "neutron" has a "standard voltage energy value", Each material element a "standard voltage energy value". In my opinion, the establishment of periodic table of elements is to irradiate various elements with strong X-ray and activate their respective "standard voltage energy value" implied in each element "neutron". When the "standard voltage energy value" of each "element entity" is activated, different wavelength laws are formed under the damping resistance of "earth voltage energy [2]" during propagation, so that each element presents its own secondary X-ray phenomenon, that is, the phenomenon marking roentgen radiation. The existence of "standard voltage energy value" of each element is the root cause of "marked roentgen radiation". According to the different wavelengths of secondary X-rays in each element, the periodic table of elements is established. The establishment of periodic table of elements proves that there are different entities in the material world. This understanding reveals the natural mystery that material elements can establish the periodic table for us.

2.2 New theories explaining all electrostatic effects:
In the long history of human physics, people are only doing experiments of friction and electrification between different substances, never testing and studying whether the friction of the same substance is charged. However, as long as we do experiments, we can find the experimental phenomenon of the same charge produced by friction of the same substance [6-7]. In particular, it should be pointed out that the premise of obtaining the experimental results of the same charge generated by friction between the same substances is to ensure the consistency of the friction electrification experimental materials [6-7]. It is difficult to explain the experimental fact that the same charge is produced by friction of the same substance with the gain and loss theory of electron, which challenges the gain and loss theory of electron.

It is difficult to explain that the same charge is produced by the friction of the same substance with the existing theory of electron gain and loss. Therefore, a new explanation method is proposed. The new point of view is that the positive charge of matter is the phenomenon of positive charge when the "heat energy" in the "entity" is surplus, and the negative charge of matter is the phenomenon of negative charge when the "heat energy" in the "entity" is lacking. The neutral charge is the phenomenon of neutral charge when the "thermal energy" in the "entity" is saturated. The essence of electrostatic effect is the charge characteristic of the unbalance state of the combination of "entity" and "thermal energy". This view is the development of the physicist E. Edlund's idea of the dynamic nature of charge.
Reasons for the same charge produced by friction of the same substance: Because the same substance has the same ability to absorb heat energy, it shows that there is no gain or loss of heat energy on the two friction surfaces of the same substance after friction, but because the surface structure of the substance is damaged, the "heat energy" spills out or absorbs, so it shows that the two friction surfaces of the same substance only carry the same charge. That is to say, the friction between the same materials is destroyed due to the surface structure of the materials. When the surface of the material emitting the lost heat energy shows the state of lacking heat energy, it shows the experimental phenomenon of having the same negative charge, shown by heat dissipation. On the contrary, the friction between the same materials is destroyed due to the surface structure of the materials. When the surface of the materials absorbing heat energy presents the state of excess heat energy, it shows the experimental phenomenon of positive charge with the same sex, shown by the heat absorption. ote: obtain the experimental results of the same charge generated by friction between the same substance, provided that the consistency of the friction electrification experimental material is guaranteed [6-7].

The reason for the different charge produced by friction of different substances: Although the surface structure of different materials is damaged and the heat energy overflows, the different materials have different heat energy absorption capacity, which results in the gain and loss of heat energy effect between different entities, thus the two friction surfaces of different materials have different characteristics of positive and negative charges.

The reason why the opposite charges attract each other: Because the negative charge is the "entity" lack of "thermal energy" state, while the positive charge is the "thermal energy" surplus state of "entity". Because of the inherent combination characteristics of "thermal energy" and "entity" in the material world, the characteristics of complementary combination of "entity" and "thermal energy" between different charges constitute the characteristic phenomenon of mutual attraction between different charges.

The reasons for the mutual repulsion between the same charges are as follows: There is no complementarity between the same-sex charges because they are in the state of "thermal energy" deficiency (between negative charges) or "thermal energy" excess (between positive charges). And it has the same "substance attribute" Ingestion, that is: negative charges have the property of ingesting "heat energy", positive charges have the property of ingesting "entity", which constitutes the repulsion and avoidance between the same-sex charges, thus showing the phenomenon of the same-sex repulsion.

The reason why the charged bodies with positive and negative charges attract the matter: The negative charge which is lack of "heat energy" has the ability to absorb "heat energy", and the surplus heat energy of positive charge has the ability to absorb "entity". Because matter is the combination of "entity" and "heat energy", it has its own needs, so the positive and negative charges constitute the attraction of matter.

2.3 Re understanding of "heat and mass theory"

In the long history of human physics, the debate about the nature of heat begins with the old understanding of the theory of heat quality. Later, there is the view of "thermal theory of dynamic manufacturing" (i.e. thermal theory of molecular motion). At present, the view of "thermal theory of dynamic manufacturing" prevails, which is mainly based on the following two experiments: ① in 1798, Benjamin Thompson put forward the "experiment of drill hole temperature rise". ② In 1799, Humphrey Davy proposed the "ice melting experiment of temperature rise of water formed by friction between ice and ice". These two experiments are not enough to deny the fact that "heat energy" is the objective existence of the material world. The reasons for these two warming experiments are as follows:

According to this paper, the “material” is composed of "heat energy" and "entity", and "heat energy" and "entity" have the characteristics of combination, and all substances contain "heat energy". In this paper, it is considered that all the phenomena of friction heat generation are due to the
destruction of the atomic structure of matter through friction, which releases the "heat energy" from the destroyed atomic structure.

"Drill hole" and "friction between ice and ice" are destroying the atomic structure of matter. Therefore, the "heat energy" is released from the atomic structure of the material. The "heat energy" released from the material atom is continuously absorbed and supplemented from the outer space of the material through the "entity" in the atom. In this way, the "heat energy" is continuously released through constant friction, and then the "entity" continuously absorbs and supplements the "heat energy", which forms the constant heating phenomenon of the friction body. This is the reason of friction heat generation.

In the view of this paper, these two experiments are not enough to deny the fact that heat energy is the objective existence of the material world, because today, when human beings understand the existence of 3K universe temperature in the vast space, the concept of "motion creates heat energy" seems to be unconvincing. Ask the theory of motion heat generation, what is it that always moves in the space to maintain the 3K universe temperature phenomenon, someone will It's caused by cosmic ray, but it doesn't know that cosmic ray itself is the phenomenon of transmitting the objective heat energy in the material world.

Another example: for a cup of water heated by fire, I think it is the "heat energy" injected into the water that causes the movement of water molecules. It is the "heat energy" that causes the movement, not the "heat energy" created by the movement of water. The objective and real existence of "heat energy" in the material world is not created by the movement of water.

2.4 *The new epistemology of "particle charge dynamic atom model":*

According to the viewpoint that "substance" is composed of "entity" and "heat energy" and has combination characteristics, when the heat energy in the particle body is insufficient, the particle presents negative charge (such as electron), when the heat energy in the particle body is saturated, the particle presents neutral charge (such as neutron), when the heat energy in the particle body is excess, the particle presents positive charge (such as proton). This view is the development of E. Edlund's understanding of the mutual transformation of positive and negative charges.

The "dynamic atomic model of particle positive and negative charge change in atom" (hereinafter referred to as "dynamic atomic model of particle charge"): is that the negative charge "electron" which lacks heat energy absorbs heat energy outside the atomic nucleus, and the negative charge of "electron" itself weakens with the increase of heat energy contained in the "electron" entity, while the "electron" rotates around the atomic nucleus (see reference [2] for the reason of electron rotation around the nucleus and the reason of rotation vector.), a large number of "electrons" with weakened negative electricity are attracted by the "entity" in the nucleus due to the increase of heat energy, and move towards the near region of the nucleus and assemble into larger particles. When the thermal energy of these large particles is saturated, they enter the nuclear shell area and become neutral charged "neutrons". The thermal energy continues to combine with the solid "neutrons". When the thermal energy of "neutrons" is surplus, they become positively charged "protons" and enter the atomic nucleus. When the voltage value generated by the continuous combination of "proton" and thermal energy is greater than the value of the external constraint voltage (the value of the external constraint voltage refers to the voltage value existing in the electromagnetic radiation emitted from the planet to outer space, see reference [2-4]), the thermal energy in "proton" will follow the "voltage characteristic mode" to emit electromagnetic radiation towards the outside of the atom at the speed of light. After the "proton" releases the heat energy, the large particle body migrates and decomposes to the outside of the nucleus due to the need of absorbing the heat energy. This natural decomposition effect is a kind of phenomenon which is conducive to the absorption of "heat energy" by the "entity". Thus, the phenomenon of "proton" breaking down and injecting particles outside the nucleus after losing heat energy is formed. These particles injected outside the nucleus become "electrons" outside the nucleus again. These solid particles have dynamic migration effect all the time. In the process of dynamic migration, when the "proton" stores heat energy before the electromagnetic radiation is
emitted, the particle stagnation occurs. The retention effect forms the nucleus. The above viewpoint is my new understanding of "particle charge dynamic atom model" under the framework of "dynamic theory of positive and negative charge mutual conversion". At present, there is a dot effect in the electron cloud observed under the electron microscope, which is the imaging of "electron" ejecting from the nucleus. This imaging verifies the scientificity of the new theory.

From the view of the whole atom: in the atom, the balance of electrostatic attraction and electrostatic positive and negative charge is formed between negatively charged electrons and positively charged protons, The whole atom does not show positive or negative charge. Atoms only show the characteristics of absorbing and releasing heat energy. The absorbed heat energy is the low energy heat energy which slowly enters into the atoms according to the principle of concentration diffusion, while the heat energy released by atoms is the high-pressure and strong electromagnetic heat energy which is released in the way of electromagnetic radiation according to the voltage characteristics.

3. Part Three: New Epistemology Of Gravitational Repulsion Field In The Material World

3.1 Understanding of gravitation and repulsion:
With the new understanding of "particle charge dynamic atomic model", we have found the root cause of the phenomenon of matter absorbing "heat energy" and "releasing electromagnetic radiation", as well as the source of attraction and repulsion force between matter. Due to the ability of absorbing heat energy, matter atoms constitute the source power of mutual attraction. That is: between atoms, between stars, because this ability to absorb heat energy from each other constitutes the universal gravitation between substances.

Simply put: the "heat absorption ability" of matter is the "universal gravitation" of matter.

The repulsion force of matter is simply said: the repulsion force between the atoms (between the stars) is formed by the "electromagnetic field emission" generated by the mutual release of strong electromagnetic heat energy.

At the micro level, the phenomenon of repulsion between atoms is the repulsion effect formed by the "launching electromagnetic field" generated by the release of strong electromagnetic heat energy between atoms.

From the macroscopic point of view, the earth continuously absorbs low "heat energy" and continuously emits strong electromagnetic heat energy to outer space, resulting in the permanent existence of the earth's "electromagnetic field emission". Due to the existence of repulsive force of "launching electromagnetic field" between two adjacent stars, no matter how the "launching electromagnetic field" of the sun compresses the "launching electromagnetic field" of the earth, it cannot directly invade the earth's surface. This view reveals the mystery that the strong solar wind can not directly invade the earth's surface for many years.

3.2. The understanding of "the law of balance space between gravity and repulsion"
There is a unity of opposites between "universal gravitation" and "universal repulsion" in the material world: the absorption and release of "heat energy" by matter is the root of the existence of "gravitation and repulsion" between matter, that is, the two matter bodies repel each other at short distance due to the existence of "electromagnetic field emitted by matter", while at long distance due to the absorption of heat energy between matter, matter is determined The substance has the characteristics of mutual attraction.

There is a law of the balance distance of attraction and repulsion force in the occurrence of "attraction" and "repulsion force": that is, the "repulsion force" generated by the "electromagnetic field" emitted by neighboring stars (atoms) and the "gravitational force" generated by the absorption of "heat energy". Through the self adjustment of the distance between stars (atoms), Close range repulsion and far range absorption, the repulsion force and attraction between stars (atoms) are balanced, thus producing the stars (atoms) The law of "the law of equilibrium distance between gravity
and repulsion". All matter (atoms, stars) in the universe are in the natural law of "the law of balance distance between gravity and repulsion".

The factors that determine the intensity of the initial "emission magnetic field" of a planet are: the mass of the planet determines the magnitude of the thermal energy emitted, and the composition of its elements determines the magnitude of the emission voltage (later introduced). Once the intensity of "emission magnetic field" released by a "Planet" is less than that of the initial "emission magnetic field" of the other "Planet", the repulsion between them will be covered by gravitation. For example, the intensity of electromagnetic field emitted by meteorites is less than the limit of the initial "emitted electromagnetic field" intensity of the planet, thus covering up the repulsive force generated by the antagonism of each other's "emitted magnetic field intensity". The meteorite will be captured by the gravitational force generated by the planet's endothermic heat. Therefore, the strength of "electromagnetic field emission" between "Planet" that can generate repulsion force must be greater than the strength of initial "emitted electromagnetic field emission" between "Planet", otherwise the repulsion force will be covered by attraction, which is the reason why meteorites can be captured by "Planet".

3.3 Understanding of the "law of the balance distance between gravitational and repulsive forces" of stars and planets:

The absorption and release of heat energy by matter is the source of all attraction and repulsion. Due to the large amount of electromagnetic energy released between stars, the balance distance between stars is very large. The electromagnetic energy emission between planets is relatively small, so the balance distance between planets is relatively small. As a huge "entity", stars have a huge demand for "heat energy", which is reflected in that stars absorb "heat energy" in the space of the universe super system (such as the solar system) to meet the strong demand of stars for "heat energy". Due to the great mass difference between stars and planets, planets are controlled by the gravitation of star endothermic formation. A planet becomes a satellite of a star on the basis of the balance distance law of gravity and repulsion. Due to the mutual dependence of gravitational and repulsive forces between planets, all the planets in the star system are in the same plane system structure. The principle of the plane system structure of star formation in the Milky way is the same.

All in all: the combination of the "emission magnetic field strength" (repulsive force) and the "ability to absorb heat energy" (gravitation) of the stars in the universe and the distance between the stars, on the basis of following the"law of the balance distance between the attraction and repulsion forces" between the stars, determines the locations of the dynamic balance of the stars in the universe, thus forming the balanced state of the operation of each star in the whole universe.

3.4 Reveal the causes of the formation of the earth's gravity:

The earth is an aggregate of atoms. A new understanding of "the law of equilibrium distance between gravitation and repulsion". the phenomenon of repulsion of short-range tension with atoms as the unit is not easy to see between micro atoms. which is mainly manifested in the far-range absorption characteristics of relative micro bodies, thus the relative cohesion effect of micro bodies (such as clouds floating in the air) appears, thus forming the cohesion effect of the whole macro earth's own materials. Through this kind of condensation effect of "heat energy" absorbed by atoms, the earth condenses in space and becomes an independent planet. And it follows the requirement of absorbing "heat energy" from outer space to supplement the "entity" in the earth. This characteristic of absorbing low energy "heat energy" from outer space and condensing "heat energy" to the earth's core constitutes the gravitational effect of centripetal condensation of all materials of the earth itself. The low energy "heat energy" absorbed by the earth from outer space refers to the "heat energy" radiated to the earth from other "stars" and "planets", as well as the 3K temperature "heat energy" existing in the space.

The earth's atmosphere is bound by this centripetal condensation of "heat energy" gravity and does not dissipate into space, because the "heat energy" contained in the earth's atmosphere and all the substances on the earth is far higher than the 3K temperature "heat energy" in the space. The centripetal condensing gravitational effect of the centripetal condensing "heat energy" of the earth
forms the "centripetal condensing gravity" for all the substances on the earth (all the substances on the earth include: the earth's core, mantle, crust, all the substances on the earth's surface and atmosphere). At the same time, there is a law that the concentration of the "heat energy" condensing from outer space to the earth's core is increasing in turn, and more and more towards the earth. The higher the concentration of "thermal energy" in the center of the ball. At present, it is known that the temperature of each kilometer of the earth's core is increased by 1 degree, which leads to the formation of the high temperature liquid phase transition effect of the earth's core material. This view reveals the natural mystery of the earth's hot core. The gravitational effect of "heat energy" condensing from outer space to the core of the planet is also the essential reason for high-temperature phase of massive stars to become liquid or gaseous.

The lift force of hot air, Kongming lamp, hot air balloon, hydrogen balloon and helium balloon is caused by buoyancy. Buoyancy is greater than the gravity of the earth, which is a phenomenon of lifting force. For example, since the buoyancy of wood blocks in water is greater than the "gravity of the earth", there is a phenomenon that wood blocks generate upward force from water, which is the same as the buoyancy principle of hot air. Therefore, the buoyancy of hot air and the gravitational effect of earth's heat absorption are not contradictory!

In short, The "entity" in the earth's matter absorbs the "heat energy" to condensation the gravitational effect centripetally, which constitutes the attraction to all the earth's substances, because all the earth's substances contain heat energy, which is the reason for the formation of the earth's gravity.[4].

3.5 Reveal the cause of the earth's rotation:
In the solar system, although the sun and the earth are located in the space of "the law of balance distance between gravity and repulsion", there is still an imbalance between the sun and the earth. That is to say, because the "thermal energy" absorbed by the side facing the sun is greater than that of the back of the earth, the electromagnetic field intensity released from the front is greater than that of the back of the earth, and the repulsion force of the front of the earth to the sun is greater than that of the back (repulsion effect). However, the gravitational effect of the earth's Yin is greater than that of the earth's Yang. The gravitational and repulsive effects of the different positions of the earth's Yin and Yang constitute the source power of the earth's rotation. The earth realizes the dynamic balance of attraction and repulsion through this effect of self transformation, which is the essential reason for the existence of permanent rotation source power of the earth.

Specifically, the gravitational effect produced by the solar heat absorbed by the earth's early line region is always greater than that of the earth's late line region, and the repulsion force of the magnetic field emitted by the earth's late line region to the sun is always greater than that of the magnetic field in the early earth line region, which constitutes the power of the earth's permanent rotation. The dynamic effect of the earth's rotation is to transform the gravitational and repulsive forces in different positions into the position effect, so as to realize the dynamic balance of the earth's rotation. This is that although the sun and the earth are in the "law of balance distance between gravity and repulsion", there is still a slight difference between gravity and repulsion on the Yin and Yang sides of the earth, which makes the earth eternal existence of the rotation source power, which is the essential reason for the generation of the rotation source power of the earth.

3.6 Reveal the reasons for the formation of elliptical orbits and the structural changes of comets:
More than 1600 comets have been found orbiting the sun, the most famous of which is Halley's comet. For the special elliptical orbit of comets, this paper considers that it is caused by the change of the attraction and repulsion between comets and the sun. Although the comet absorbs and releases "heat energy" in equilibrium, from the perspective of the comet's entire orbit around the sun, When the comet is far away from the sun in the low "thermal energy" content area, the "thermal energy" content in the comet decreases. Because the existence of the "law of gravity" depends on the absorption of "thermal energy" between the matter atoms, the comet with low "thermal energy" content shows the
effect of weakened cohesion, loose structure and darkened comet nucleus. At this time, comets with low content of "thermal energy" move towards the stars with the characteristics of "thermal energy" radiation source of the sun, so as to obtain the supplement of "thermal energy". When comets move to the area near the sun, they get a lot of "heat energy" from the electromagnetic radiation released by the sun. When comets are filled with a lot of "heat energy", under the repulsion of the sun and comets "emission magnetic field", comets are repelled by the sun. Under the action of inertial force, in the motion between comets and stars, the elliptical orbit around the stars appears. Comets full of "thermal energy" have a high content of "thermal energy". Due to the existence of the law of universal gravitation, it depends on the absorption of "heat energy" between the matter atoms, which shows that comets with high content of "heat energy" have strong cohesion, showing the effect of comet body contraction and comet nucleus brightness enhancement. which is the reason for the formation of comet elliptical orbit and structural changes.

3.7. Reveal the causes of the formation of black hole gravity:
Substance is a combination of Entity and heat energy, which has the characteristics of combination. All matter contains heat energy, A "pure entity" without "heat energy" at all cannot be called a "substance", Because "pure entity" can't form the structure of atomic force without the participation of heat energy, "pure entity" is the "matter" in the black hole of the universe, and this "matter" in the black hole can not be called matter, it is only a single entity, Because the "entity" in the black hole of the universe has a strong absorption effect on heat energy, the electromagnetic radiation heat energy light emitted by the stars is swallowed by the black hole, which is the essential reason for the absorption characteristics of the black hole in the universe. In this paper, "black hole" is called "blackbody star", The "single entity" in black holes is called "black body matter" in this paper.

For more information about the resurrection of a black hole and its role as a cosmic fire extinguisher, please refer to [2]. The birth of galaxies. the disintegration of galaxies: related to the critical temperature point at which stellar elements form "material light state " [8], For more information, see [2].

4. Part Four: New Epistemology Of Magnetic Field In Material World

4.1. There are two kinds of magnetic fields in the material world:
One is "emitting magnetic field": In the material world, regardless of the size of the mass (atoms and stars), there is a "emission magnetic field" that continuously absorbs low "heat energy" and continuously "emits strong electromagnetic radiation heat energy". This "emission magnetic field" is really the fundamental reason for the existence of "universal gravitation and repulsion". This "emission magnetic field" does not have N, S polarity.

The other is a magnetic field with N and S polarity: This kind of magnetic field is formed by specific reasons. It is a "regression field" formed by the "electromagnetic radiation energy" emitted by itself and the "electromagnetic radiation energy" recovered by itself. Including the magnetic field of N and s polarity of the earth and the magnetic field of N and s polarity of magnetic materials, which are all magnetic fields with their own characteristics of emission and recovery. There is no direct relationship between them and the gravitational and repulsive forces between matter, but there is a directional force relationship between them.

4.2 The formation of the earth's "emission magnetic field" and the characteristics of the intensity of the emission voltage value:
The formation of the earth's "emission magnetic field" is due to the fact that the earth is an aggregate of atoms, and the earth atoms constantly absorb the low "heat energy" of the outer space and constantly "emit the heat energy of strong electromagnetic radiation", thus forming the earth's "emission magnetic field". The earth's "emitted magnetic field" has no N and S polarity. The earth's "launching magnetic field" is the earth's "large geomagnetic field". The electromagnetic energy
emitted is continuously attenuated through long-distance transmission, about 30000 kilometers away from the earth's surface. The large "emission magnetic field" of the earth is the magnetic field that produces repulsive force with the "emission magnetic field" of other planets. This magnetic field follows the "The law of equilibrium distance between gravitational and repulsive forces between stars". The "emission electromagnetic field" of the earth's matter absorbs low heat energy from outer space and agglomerates to the earth's core, which is the cause of the formation of the earth's gravity.

What is the emission voltage of the earth's large "emission magnetic field"? According to this paper's understanding of the causes of the formation of the gravity of the earth's matter, the core of the earth is not the heavy element nuclear reaction, the composition of the earth's material elements as a whole should be roughly the same, so the composition of the earth's elements measured on the earth's surface is also the composition of the earth's elements. Since the earth's material is mainly composed of eight elements, accounting for 97.13% of the total weight, the sequence of eight elements in the periodic table of elements is: 8 oxygen, 11 sodium, 12 magnesium, 13 aluminum, 14 silicon, 19 potassium, 20 calcium, 26 iron. According to the arrangement order of elements in the periodic table of elements introduced earlier, it is also the order in which the "saturation voltage value" of each element rises gradually. Therefore, the emission voltage value in the "earth emission electromagnetic field" should be the "saturation voltage value" intensity characteristic of the 26th iron "element" in the highest position of the eight "elements". Because there are a small number of heavy elements larger than iron "elements" on the earth, these heavy elements have an upward regulating effect on the voltage value of electromagnetic field emitted by the earth. According to the 2500V voltage needed to release ionized air to produce ozone in the earth's space, we can see the magnitude of the discharge voltage in the earth's space. The electric energy less than 2500V (about) ground voltage can't discharge into space, can't transfer current through non-contact mode, can only conduct current through contact mode. In the earth space, the electric energy which is more than 2500V (about) ground voltage can be transmitted through the space by non-contact way. The composition of the earth's material elements determines the earth's 2500V emission voltage. The author has noticed a unique coincidence phenomenon, Maybe we have found another path of scientific truth: it is found that the 2500V voltage value of the earth's ionized air is highly consistent (close) with the order of iron element 26 in the periodic table of the elements. Therefore, the author puts forward a bold new understanding: in the periodic table of elements, every bit of "saturation voltage value" increased by 100V. Starting from the "saturation voltage value" 100V of hydrogen, the "saturation voltage value" of helium is 200V, and so on. The order of iron elements in the periodic table is 26th, so the "saturation voltage value" of "iron element entity" is 2600v, and the "saturation voltage value" 2600v of iron element is highly consistent (close to) the 2500V "cut-off voltage value" formed by the above "earth emission magnetic field". According to this law, the "saturation voltage" of uranium 92 is 9200v, which is much higher than the earth's voltage. Therefore, when the uranium element exceeds its "saturation thermal energy voltage" to emit electromagnetic radiation to space, it shows a strong radioactive phenomenon greater than the earth's voltage. Because the heavy elements of uranium 92 are arranged at the high position of the periodic table of elements, it is a "entity" with "highly saturated heat energy". The "entity" of heavy element uranium 92 has the ability to absorb a large amount of heat energy from the external space and store a large amount of heat energy, so as to meet the demand of "highly saturated heat energy" of heavy element "entity" itself. Therefore, the "high saturated heat energy" characteristic of heavy elements determines that heavy elements have a constant high heat phenomenon. This view reveals the reason why heavy elements have high thermal energy and high radioactivity.

Electrostatic high-voltage is not caused by the separation distance between positive and negative charges, because the friction between the same substances produces the same charge high-voltage electrostatic, there is no condition for the separation distance between positive and negative charges, we found that the electrostatic is in kilovolts, because there is a voltage generated by the earth's "electromagnetic field emission" in the earth's space. When the voltage is below this value, it is shielded by the voltage on the ground, and we can't find static electricity. Only when the voltage is
greater than this value can we find the existence of static electricity, which is the real reason for finding that static electricity is thousands of volts.

In a word, the composition of the earth's material elements determines the emission voltage value of the earth's "emission magnetic field". According to the reasons for the formation of magnetic substances, it is related to elements such as iron 26, cobalt 27, nickel 28 and copper 29 (as follows). The emission voltage value is in the range of the "saturation voltage value" of iron and copper elements, and the initial emission voltage is between 2500 V and 2900 V. The amount of electromagnetic energy emitted in the earth's "emission magnetic field" is determined by the content of the earth's material and the amount of heat energy absorbed and released. Decided, The earth continuously emits the earth's "electromagnetic field" of this voltage strength to the outer space. After the launch, the distance from the earth's surface is about 30000 kilometers under the damping drag of 3K space temperature heat energy through long-distance transmission. This is the characteristic of the earth's "emission magnetic field". It is also the constraint voltage when the earth's material atoms emit electromagnetic radiation to outer space. Hot air is not electricity, because it is lower than the 2500-2900v voltage value of the earth. Hot air is just our perception of the concentration of thermal energy.

4.3 The reasons for the formation of "NS magnetic field at the north and south poles" And "Van allen radiation belt" Of the earth:

Why is there another "NS magnetic field of North and south poles" in the earth's "emission magnetic field"? The answer is: because the north pole of the earth is always facing the center of the galaxy, while the south pole of the earth is the opposite, so the electromagnetic heat energy from the center of the galaxy is always greater than the south pole, which results in the temperature of the north pole of the earth is always higher than the South Pole. Therefore, when the electromagnetic radiation energy from the galactic center enters the earth's north pole, the earth's north pole facing the galactic center becomes the "geomagnetic S pole" of the incident end of the electromagnetic radiation energy, and the corresponding earth's south pole becomes the "N of geomagnetic field" of the radiation source. This view reveals the formation of "N of geomagnetic field" and "S of geomagnetic field".

The electromagnetic energy of the earth along the direction of "magnetic field NS" is very small, The reason is that the earth's material is not only composed of eight elements accounting for 97.13% of the total weight of the earth, but also corresponding to 2.87% of other elements, including heavy elements larger than iron (in this paper, elements larger than iron are collectively referred to as heavy elements). Because the earth emits "emission magnetic field" characterized by the "saturation voltage value" intensity of iron element, the electromagnetic radiation energy of the "iron voltage value intensity" emitted by the earth is low-voltage weak electric energy compared with the heavy element "high saturated heat energy", so the heavy element material larger than iron element has the ability to absorb the electromagnetic radiation energy in the "geomagnetic field". When the earth's heavy elements absorb the electromagnetic radiation energy emitted from the earth, It also has the directionality characteristic of "n, s polarity" which is the same as "the earth's magnetic field", which forms the regression characteristics of the electromagnetic energy of the earth's NS magnetic field in the "Van Allen radiation belt". As 97.13% of the total weight of the earth is composed of eight elements, and the content of heavy elements in the earth is very small, the electromagnetic regression energy in the "Van Allen radiation belt" with the characteristics of the North-South polarity of the earth is a small part, which forms the characteristics of the small electromagnetic energy in the earth's ns polar magnetic field in the "Van Allen radiation belt".

4.4 The reason why the earth's "magnetic pole point" presents the dynamic law of annual small circle movement in the north and south poles

Is that the north pole of the earth always faces the "Galactic Center", the north pole becomes the "geomagnetic S" of electromagnetic energy incident on the earth, and the South pole of the earth correspondingly becomes the "geomagnetic N" of the launching end. Therefore, when the earth receives the electromagnetic energy from the center of the galaxy, since the earth rotates around the
sun for one year, the "magnetic pole point" changes in a small circle at the north and south poles in one year. This view reveals the natural mystery that "magnetic pole point" presents the dynamic law of small circle movement all the year round at the north and south poles.

4.5 The reason for the formation of N and S pole magnetic field of magnetic substance on the earth:

By studying all the magnetic materials on earth, I found an amazing phenomenon: all magnetic materials on earth contain at least one element of iron, cobalt, nickel and copper. Let's take a look at the composition of all soft and hard magnetic materials on the earth: magnetite (Fe3O4), ferromagnetic materials, namely iron, cobalt, nickel, slope alloy (78.5% nickel, 21.5% iron); silicon copper; pure iron; carbon copper; tungsten steel; aluminum, cobalt, nickel, magnetic steel (al NiCo), ferrite permanent magnetic materials (BaFe12O19, SrFe12O19), rare earth permanent magnetic materials (SmCo5, Sm2Co17, Nd-Fe-B). Why do magnetic materials contain at least one element of iron, cobalt, nickel and copper, and only correspond to ferromagnetic phenomena that attract iron, cobalt, nickel and copper (to be discussed later)? What is the reason for this? When you look at the order of these elements in the periodic table, you will find that the order of iron 26, cobalt 27, nickel 28, copper 29 is equal to or greater than iron 26. According to the order of the elements in the periodic table, the saturation voltage of each element increases gradually, and a new understanding of the absorption and release of heat energy in the process of particle dynamic migration in the atomic model is obtained. From the in-depth study of the atomic model, we can see that the frequency of electromagnetic radiation emitted by an atom is determined by the difference between the saturation voltage of each element and the external constraint voltage of the atom. The smaller the pressure difference, the higher the frequency of electromagnetic radiation emitted by atoms. When the saturation voltage of the "material element" is the same as the earth's constraint voltage, the high-frequency emission of electromagnetic radiation energy will occur. The emitted electromagnetic radiation energy will be absorbed back again by the demand characteristics of the "entity" with the same saturated voltage energy value, so as to directly meet the entity's demand for its own saturated heat energy, and then the voltage value exceeding its own saturated heat energy will be released again. Therefore, the electromagnetic energy emitted and recovered by the magnetic material itself appears the characteristic phenomenon of N and s polarity in the circulation field, which is the reason for the particularity of the return of the electromagnetic field of the N and S poles of Fe, Co, Ni and Cu. In fact, the magnetic line of force of magnetic material is the return path of electromagnetic radiation energy self recovery.

To sum up, there is a special phenomenon of high-frequency emission and self recovery of electromagnetic radiation energy because the "saturated thermal energy voltage value" containing these "material entity elements" is the same as the "Earth's constraint voltage value". This is essentially the inherent combination of "entity" and "thermal energy", and the reason why the saturation voltage value is equal to the constraint voltage value is formed. Specifically, because the saturated voltage values of iron, cobalt, nickel and copper are the same as those emitted by the earth, These "material elements" not only directly release the electromagnetic energy of the earth voltage value, but also have the characteristics of directly absorbing the electromagnetic energy of their own emission voltage value. Therefore, the characteristics of absorbing the electromagnetic energy of the earth's voltage value make these magnetic materials have the particularity of identifying the direction of the earth's north and south magnetic poles, that is, the characteristics of the compass.

Although the magnetic material emits and recovers 2500 V (about) high-voltage electric energy between "magnetic pole N and magnetic pole s", because it is in the earth's 2500 V (about) high-voltage energy field, they are the same equipotential (i.e., the same voltage), so we can not perceive the 2500V (about) high-voltage electricity between "magnetic pole N and magnetic pole s", we can only peer through the magnetic line of force of magnetic field. The phenomenon of return of electromagnetic radiation energy emitted and recovered between magnetic pole N and magnetic pole s. Because we can not observe the existence of high-voltage electrical properties of magnetic materials, so we attribute it to magnetic field. It is precisely because the voltage of the magnetic material "pole N
and pole s" returning electromagnetic radiation energy is in the same equivalent earth emission voltage, so it is difficult for us to recognize the true face of magnetic field!

4.6 Reasons for ferromagnetism of magnetic materials:
Why do magnetic materials have ferromagnetic phenomena that attract iron, cobalt, nickel and copper? The reason is that the magnetic materials have the characteristics of absorbing the energy of the earth's emission voltage, because in the matter of iron, cobalt, nickel and copper, the same "Saturation voltage value energy" as the earth's emission voltage energy is implied in the "neutrons" of these elements, because the "saturated thermal energy" of these material elements cannot be separated from the "entity", Therefore, the characteristics of magnetic material absorbing the energy of the earth's emission voltage produce the corresponding attraction characteristics of the material elements containing the energy of the earth's emission voltage, that is, the ferromagnetism phenomenon that directly attracts the elements of iron, cobalt, nickel and copper. The ferromagnetic elements are iron, cobalt, nickel and copper. The copper magnetic materials discovered in the United States in 1993 conform to this theory.

5. Part V: New Epistemology Of Electric Field In Material World

5.1 The reason of 3K temperature phenomenon in space. new understanding of "Ether":
Every "Star" in the universe continuously emits electromagnetic radiation to outer space. After the electromagnetic heat energy decays in the process of cosmic propagation, it is distributed in the cosmic space, thus forming a 3K temperature phenomenon with the background of the universe. The essence of the electromagnetic wave medium "Ether" proposed by Descartes is 3K temperature "heat energy" which exists independently in the universe. The essence of "Ether" is "heat energy".

5.2 New understanding of wave particle duality of light:
A new understanding of the properties of light particles: without the participation of "entity", there will be no particle properties in pure electromagnetic radiation light, and most of this light energy is "cold light energy". With the participation of "entity", there are particles in the light energy of electromagnetic radiation, most of which are "thermal light energy".

A new understanding of light wave dynamics: when there is no heat medium damping and dragging effect in the propagation path of electromagnetic radiation light energy, light will travel along a straight line, which is the ideal blackbody radiation in our theoretical understanding. When the electromagnetic radiation light energy has heat energy (or thermal energy voltage field) medium damping and dragging effect in the propagation path, the fluctuation of electromagnetic radiation light energy appears at the same time, the thermal energy in the light is released from the electromagnetic radiation energy, and the thermal energy in the light is attenuated. The reason why the X-ray of electromagnetic radiation propagates in a straight line is that the resistance in the path of relative high voltage is too small.

5.3 The new understanding of "resistance" of space "electromagnetic radiation" is as follows:
In February 1902, the discovery of the "white night effect" which is not conducive to the long-distance propagation of radio waves was found between the "Porter Hugh" and the "ferradelfia" of the American route, that is, the propagation range of the radio waves at night is more than twice that of the daytime, which is the most powerful proof of the heat medium. This "white night effect" is caused by high and low concentrations of "heat" during the day and at night. In the daytime, the electromagnetic radiation propagates along the path, and the resistance of "hot medium" is higher than that at night. According to the fact that the change of thermal energy in the middle path of the "white night effect" causes different attenuation of radio waves, the existence of 3K "heat" in the universe is the cause of stellar light attenuation.
"Thermal energy" is the "resistance" in the propagation path of "electromagnetic radiation". The higher the concentration of thermal energy is, the greater the resistance is; otherwise, the lower the concentration of thermal energy is, the smaller the resistance is. The "thermal energy voltage field" in the planet's "electromagnetic emission" is the stronger resistance in the propagation path of "electromagnetic radiation". The repulsive force of the "thermal energy voltage field" emitted by the sun and the earth is to make the sunlight form a strong resistance when it enters the geomagnetic space, so that the sunlight can release a lot of heat energy. In the middle path between the sun and the earth, there is only 3K thermal microresistance, which is close to superconductivity, so the sunlight can not release a lot of thermal energy.

5.4 New understanding of electricity and electromagnetic radiation:
Electricity and electromagnetic radiation are the same essential properties. When electromagnetic radiation propagates in a specific medium "conductor", it is current. When electricity propagates in the "non conductor" medium, it is electromagnetic radiation, which is equivalent to the current flowing in space.

New understanding of Conductor: the specific medium "conductor" refers to the medium that can reduce the voltage value in the medium. The essence of the specific medium "conductor" is that there are a large number of electrons lacking heat energy inside the "conductor". Through the absorption of heat energy inside the "conductor" by electrons, a lower voltage environment appears inside the "conductor" than outside the "conductor", Therefore, when electromagnetic radiation appears to conduct electromagnetic radiation in the "constraint oriented" low-voltage channel, we can see the current flowing (electromagnetic radiation) in the "conductor".

A new understanding of non-conductor: "non conductor" (including space, air, insulator, etc.), because there are not many electrons in these media, the internal voltage value can not be reduced, while the channel "non-conductor" has no low voltage value. Because the internal voltage value of "non-conductor" medium is the same as the external voltage value, there is no low-voltage channel that can restrict and guide the conduction of electromagnetic radiation energy Sex. Only the high-voltage electromagnetic radiation energy higher than the "non-conductor" internal and external voltage can pass through, while the "non-conductor" medium has heat energy when which produces damping and drag effect on the passing electromagnetic radiation energy thus releasing heat energy, which leads to continuous attenuation and fluctuation of electromagnetic radiation energy on the propagation path.

5.5 new understanding of continuous current generated by conductor cutting magnetic line of force:
After understanding the above new understanding of N, S pole magnetic field and conductor, finally I will talk about the problem of conductor generating current continuously through cutting magnetic field lines in N, S pole magnetic field. Because the N, S magnetic field is a return field which emits from the pole N and then recovers the electromagnetic radiation energy from the S pole, and the conductor is a low-voltage channel whose internal voltage value is less than the external voltage value of the conductor. Therefore, when the conductor with low voltage channel cuts and blocks the magnetic field line of force in the N and S pole magnetic field, i.e. cuts returns the electromagnetic radiation energy, it is equivalent to applying a kind of high voltage electric energy greater than the voltage value in the conductor on the conductor, Thus, the high-voltage electric energy of electromagnetic radiation flowing back along the N and S poles enters into the conductor and is transmitted out through the low-voltage channel of the conductor, thus forming the current phenomenon we see. The reason for the continuous generation of current is that, from the above discussion, we know that the magnitude of the electromagnetic radiation voltage energy emitted and absorbed by the "N " and “S” pole magnetic fields is the same as that emitted by the earth. Therefore, the conductor cuts off the current of these voltage energy lost by the magnetic field line passing through the conductor. Through the N-pole and S-pole magnetic materials, they have the characteristics of absorbing the earth's voltage energy. In the earth's emitted electromagnetic field,
they can obtain continuous supplement through ingestion, so as to supply the conductor to form a continuous current. In fact, the essential reason for the current generated by cutting magnetic lines of force by conductors is the practice of Faraday science giant: human beings have transformed the electromagnetic energy in the earth's "emission magnetic field" through N and S magnets into the low-voltage conductor channels for utilization. This is the utilization of the electromagnetic energy emitted by the earth. It is a great contribution made by Faraday, a great experimental scientist, to us. But Faraday didn't know the reason for the directionality of the left and right hand rule when the conductor cut the magnetic line of force. For the causes of the directionality of the left and right hand rules, see [2] for details.

In a word, electricity and electromagnetic radiation are the same essential attributes. When high-voltage electromagnetic energy is applied to low-voltage media for propagation, heat energy follows the propagation law of voltage characteristics. The only difference is that electricity is propagated in specific low-voltage "conductor" media, and electromagnetic radiation is propagated in non-specific medium "non conductor", so current and electromagnetic radiation are the same essence. The electric quantity is the content of heat energy. The electromagnetic radiation can also be called the current flowing in the unconstrained space.

6. The Sixth Part: The Scientific Significance Of The New Theoretical System Of Physics In The 21St Century

"The New Theoretical System Of Physics In The 21St Century" Will Accelerate The Progress Of Human Beings From The "Earth Civilization Era" To The "Cosmic Civilization Era" [1]! Under the guidance of the theory that every planet in the new theoretical system "emits electromagnetic fields" to outer space, the author designed the experimental results of the lifting force generated by the high-voltage discharge body to the earth discharge [11-12], which is of great significance and application value. This experiment is based on the lift phenomenon caused by the repulsive force between the discharge of the earth's "electromagnetic field" to outer space and the discharge of the high-voltage discharge body. This is a method to overcome the earth's gravity by using the "law of balance distance between gravity and repulsion" between planets, See Figure 1. It is a kind of spacecraft which uses the "principle of gravitational repulsion between satellites" as its dynamic capability [1] [9]. This kind of spacecraft, which uses the dynamic performance of the "inter satellite gravitational repulsion principle", will be able to travel freely between the planets.

![Figure 1. Schematic diagram of space flying saucer principle prototype (for details, see instruction [9])](image)

In the future, with the improvement of discharge energy of high-voltage discharge vehicles, when mankind successfully develops the "space flying saucer" [9-13] driven by electromagnetic propulsion and roaming in interstellar space, it will be easy for humans to travel to and from each planet. It will usher in a new era of interplanetary space vehicles! With the development of human beings to the deep of the universe, human beings will move forward from the era of earth civilization to the era of universe civilization! At that time, with the development of human beings to the deep space of the universe, The vision of intelligent human beings will look at the whole universe, and will not cause nuclear war in order to fight for limited resources on the earth! In order to avoid the fate of human being destroyed in the event of large-scale nuclear war, it is urgent to speed up the research of electromagnetic propulsion power "space flying saucer"[1]! This is the sacred mission given to us by the right of human existence! In order to speed up the research process of the "aerospace flying saucer" driven by electromagnetic propulsion, The author seeks cooperation from the international community! I hope the miracle of human space will come soon!
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