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*Samo Liu*

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# The Fourth Exploration of the Fundamental Nature of the Universe

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## I. INTRODUCTION: HUMANITY AS THE REPRESENTATIVE OF THE UNIVERSE

The issue of zero-dimensional space and the reevaluation of the fundamental nature of the universe may represent a current phase in humanity's understanding of the true nature of the cosmos, marking a progression in human thought. Considering the contradictions between relativity and quantum mechanics through the lens of a zero-dimensional universe could, with high probability, be a correct approach to resolving these modern physical paradoxes. If science proves this to be true, many might find it surprisingly simple. Does human thought need a paradigm shift or a revolutionary way of thinking?

However, this issue is far from simple. The contemplation of this problem has spanned over 2,500 years of recorded human history and 500 years of scientific inquiry. How long did our ancestors ponder this issue before 2,500 years ago? We do not know. Our ancestors, worthy of our pride, may have experienced or even embodied a divine phase in human history. The notion of divinity has persisted throughout human history (Liu, "The Zero-Dimensional Universe: 绝对空间考"). We sometimes declare our material divinity, which science has proven to exist. The spiritual aspect of divinity, intertwined with material progress, has become blurred and diffused but has not vanished, as evidenced by love, compassion, and creativity.

The concept of the zero-dimensional universe's fundamental nature is a method of thought our ancestors bequeathed to us—a scientific approach to perceiving the universe. Through arduous efforts, 500 years of material science, and material philosophy, we have mastered classical and modern physics, validating the scientific contemplations of our great ancestors. We express gratitude to our ancestors and to humanity's efforts and struggles. The achievements of modern physics have validated the ancestral thoughts on the fundamental nature of the universe, leading to new reflections and advancements in human thought.

Humanity has not betrayed the causes and conditions of the universe that created us and has, for now, lived up to the universe's expectations for our creation (Liu, "人类本原考"). The term "representative" is a concept created by humanity. Do humans truly represent the universe? This is a matter for human judgment and for time to reveal.

## II. HUMAN EXISTENCE WAS THE REPRESENTATIVE OF THE UNIVERSE EXIST

The universe and its existence consist of information, energy, and matter, along with their mutual movement and change. The existence of an individual human, their creation, life, and death, is a manifestation of this existence. Could the collective creation, life, and existence of humanity cycle similarly to the universe's existence? In principle, yes. However, humans possess sensations and subjective consciousness, enabling us to think and judge independently. Humans can resist the laws of the universe; thus, our collective existence and existential reflections are determined by human thought and action.

Humans are material beings, and all our sensations stem from material desires and the human body. Language, writing, numbers, and scientific expressions also convey materialized information. How, then, can non-material void and emptiness arise? After studying Aristotle's philosophical works and dialectical materialism, and having the opportunity to read "无中生有的宇宙 A Universe from nothing" (Krauss) and "通向实在之路 The Road to Reality" (Penrose), as well as Einstein's theory of relativity on the transformation of matter and energy, Planck's quantum theory, Kelvin's absolute zero, the concept of absolute space and monadology, the electromagnetic forces of the universe, universal gravitation, strong and weak nuclear forces, and after studying systems science and physical cosmology, and practicing mineral processing, it is clear that all forces are perceived as the interaction of matter and energy. Time is the cause of existence. Thanks to the efforts of many scientists, the causes of existence and motion in space have become clear. Scientific verification is merely the result; The author doesn't know how to prove it scientifically, the author uses language, writing, and numbers to examine the thoughts of our ancestors from 2,500 years ago (Liu, 2024.5) ( 2024.8) ( 2024.8a) ( 2024.7)). Next, I will discuss the fundamental nature of the universe.

Physics has discovered a vacuum, also called a quantum vacuum, where no post-atomic matter exists, only quarks, particles, fermions, and bosons, alongside the non-material existence of dark matter and dark energy. Particles are both material and non-material, as demonstrated by wave-particle duality. Their entanglement shows the zero-dimensional spatial properties of non-material energy information, and their unpredictability indicates the instability of particles, non-material, or immature matter. Entanglement illustrates the informational interconnections between existences (Liu, "宇宙本原考").

If zero-dimensional space still needs empirical proof, quantum mechanics has at least shown signs of non-material existence. Four-dimensional spacetime has inspired thoughts on non-material existence with zero time. Once matter has quality and mass and time measurement, it becomes complete matter or energy. Thus, quantum mechanics and relativity have opened the door to the fundamental nature of the universe and zero-dimensional space. Our ancestors' thoughts on the universe's fundamental nature have been largely validated by science, yet we remain entangled in material and materialized language, writing, and numbers. This means that while humans can represent the universe, our thinking still cannot fully represent the entire universe because we have not yet comprehensively understood space and existence within the universe.

The universe is inherently simple but has created a complex entity called humanity. Humans have sensations and subjective consciousness, language, writing, numbers, and have also learned science. For humanity to exist, complexity is necessary to explore and study the issues of existence and

measurement, using language, writing, numbers, and scientific information to prove and describe it (Liu, "Beautiful and fresh flowers").

If humans are to represent the universe, we must understand the true and comprehensive nature of the universe, including both material and non-material existence. To survive and exist, humans must study these existences (Liu, "宇宙本原考" and "人类本原考"). We have understood matter and classical physics, quantum mechanics, and the fact that everything originates from atoms and particles. But how do particles arise? How did bosons and fermions appear? Where did quarks come from? Is there a primordial force that creates quarks?

Quantum mechanics tells us that the universe is an ocean of energy, including kinetic energy, electrical energy, atomic energy, and a force called thermal energy or thermal power. The existence, movement, and change of matter and energy can only be expressed through thermal energy (Langner, "Theoretical Concepts in Physics"). Thus, thermal power might be related to the force that creates energy and matter, referred to as the "The Force" in "宇宙本原考". While this term also appears in Western films, here it is a physics term specifically referring to primordial force. If there are copyright issues, it can be called thermal power or primal force.

The universe created humanity, and humanity needs to survive and exist. Our ancestors developed the fundamental concepts of the universe, created language, writing, and numbers, and modern humans created science, which has partially validated our ancestors' ideas about the universe. We still need to use language, writing, numbers, and science to empirically verify these ancestral thoughts about the universe and the existence within it. For humanity to exist, live, and survive long-term, we must diligently explore and verify the existence within space and space itself, including human existence.

Proving the nature of space may not be achievable with material science or mathematics in the short term. We may need to transition from three-dimensional to zero-dimensional space to think about Tan (懲) in stages and admire Tan(懲). Physics has already extensively studied matter, and quantum mechanics needs further development for energy. Relativity must continue to expand. Short-term understanding of the forces and time causes that form energy may not be feasible, but this is the direction of physics research. We hope more great scientists and theories emerge to explore the causes of existence and change in matter and energy for humanity's survival and existence.

Whether humanity represents the universe or not, we must first represent ourselves. Both material philosophy and fundamental concepts of the universe are human thoughts. We have contemplated material philosophy for over 2,000 years following Aristotle, and now physics, quantum mechanics, and relativity prompt us to consider zero-dimensional space. This is not humanity's design but the universe's natural push for humanity to survive, exist, and think.

Whether it is Buddha Sakyamuni's predictions (Liu, "宇宙本原经典考") or the natural emergence of modern physics, humans must contemplate what to do next. Having created coordinate systems, we need survival goals and hopes. Facing the contradictions in physics and numerous contradictions in the human world, if we wish to continue existing and surviving happily, we must create new thinking goals.

### III. REVISITING SPACE AGAIN

Material philosophy and material science have depicted space as three-dimensional. With the advent of modern physics, we are compelled to explore the concepts of absolute space and zero-dimensional space. As stated in Chapter Four of the \*Tao Te Ching\*, we might be limited in our understanding because the existence within space determines how we describe Tans(懲) state. (Liu, "道德经.宇宙本原的宣言") We are familiar with three-dimensional space, but for the sake of existence and thought, we

must also reconsider zero-dimensional space. However, space also contains other forms of existence, such as the causal relationships in mechanics, the existence of temporal causes, and the state of intelligent energy. Solving these issues might require the contemplation of many future generations. If they discover new forms of existence, it might lead to new ways of describing space. Therefore, we cannot currently define space strictly as three-dimensional or zero-dimensional; this is merely a stage in humanity's understanding of space. (Liu, (2024.5) (2024.8) (2024.8a)

From the material point of view, it can be called three dimensional space; From the perspective of the Cosmic origin, it can be called 0-dimensional space.

Can we and our descendants continue to exist? Humanity itself cannot definitively answer this because we are material beings. However, we also have perceptions, sensations, and subjective consciousness. The causes of the universe created humanity and endowed us with both the potential for greatness and the seeds of destruction (without negative connotation). This duality has led us to create language, writing, numbers, and science in the material world, to develop mechanics and energy, and to establish modern science. These advancements have given us some ability to resist natural laws and to cope with universal threats. At present, no imminent universal cause appears likely to threaten humanity's survival in the near term. However, through the study of material philosophy and science, we have discovered universal causes, the fundamental nature of the universe, and cosmic energy, leading to the creation of nuclear weapons and robots.

The current global situation is chaotic and tense, with frequent discussions about war and even speculation about World War III and nuclear warfare. In "Second time Discussion the Essence of the Universe," (刘(2024.8)) the author called on scientists to calculate the impact of nuclear explosions, especially hydrogen bombs, on the Earth's environment. This implies that understanding the factors and causes that threaten human survival is crucial. From the perspective of the fundamental principles of the universe, nuclear weapons could potentially lead to the extinction of humanity by disrupting the cosmic energy environment and Earth's paradise-like conditions. Thus, the possibility of human self-destruction is a frightening, laughable, yet very real prospect. The irony is that intelligent and wise humans might cause their own extinction. Do you believe this?

To resolve this contradiction, we must again turn to the principles of the fundamental nature of the universe. We need to analyze the causes and factors that threaten human existence. Resolving contradictions involves understanding and addressing these underlying causes and factors. This topic will be discussed in detail in the next article on the fundamental nature of the universe. For now, we will continue to use science to discuss the fundamental nature of the universe and explore scientific philosophy.

#### IV. EXISTENCE WITHIN SPACE

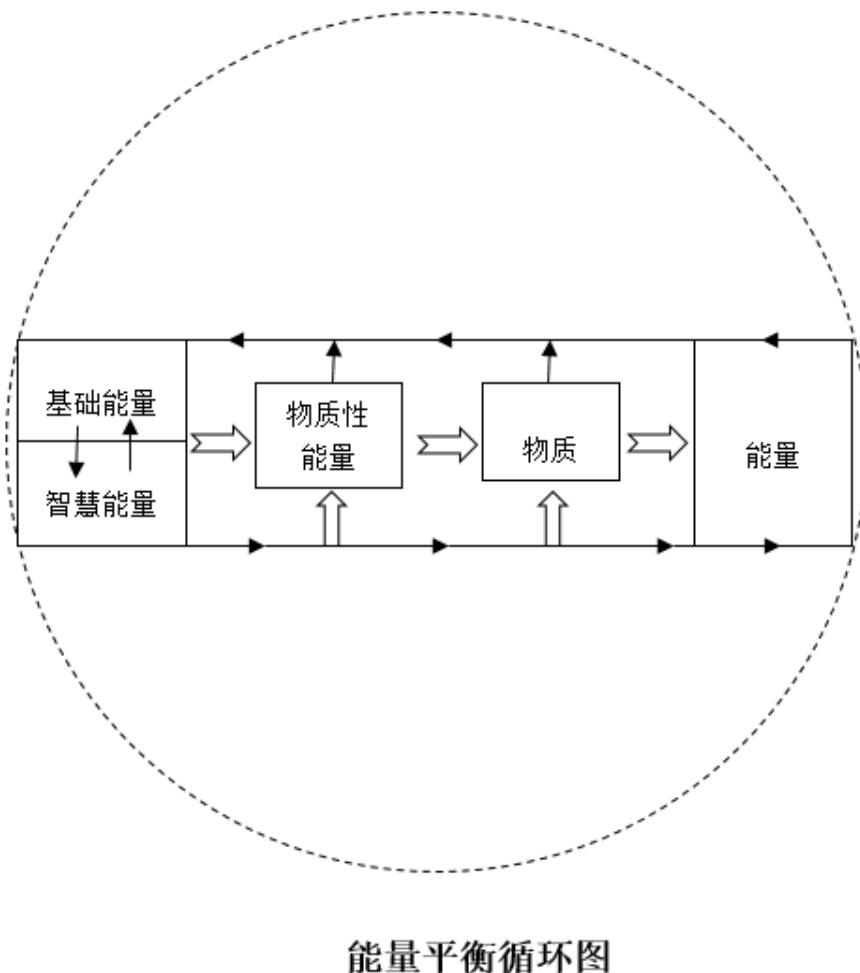
Everything that exists is within space. Analyzing and judging based on current information, the existence of matter and energy is intertwined with the existence of force and time. It is force and time that facilitate the aggregation and dispersion of matter and energy, driving their movement and change. Through the principle of balance, matter is created, exists, moves, and changes in a continuous cycle. Professor Penrose discovered this, but our ancestors had already identified and explained this concept in their fundamental understanding of the universe.

##### 4.1 Balance and Cycles

The fundamental concept of the universe teaches us that the highest principle of the universe is balance, and under this supreme principle, there is continuous cyclicity. Basics energy(基础能量)

and intelligent energy (智慧能量) are unified in a yin-yang relationship, embodying life. First, they create energy-based existence, which then creates matter-based existence. All existences, under the influence of force and time, aggregate, grow, decay, and return to an energy state. This process follows the principle of energy balance and cycles, as illustrated in the energy balance cycle diagram.

(附图) 能量平衡循环图



能量平衡循环图

Energy Balance Cycle Diagram: A Modified Taiji Diagram.

The energy balance cycle can be illustrated as a variation of the Taiji (Yin-Yang) symbol, reflecting the Daoist concept of "One gives birth to Two, Two give birth to Three, and Three give birth to all things" from the \*Tao Te Ching\*. In this diagram.

Let's think about the energy balance diagram.

A dashed circle represents an infinite space that is not closed.

Space is filled with an immaterial basic energy. It is not known what the basic energy is. Space is filled with intelligent energy, or basic energy with intelligence and heart.

Not knowing what intelligent energy is, reflected in matter and energy, man finds that force and time, which are neither matter nor energy, (Liu (2024.8) (2024.7)) are a cause of information, a cause which causes energy and matter to come into being, to exist, to move, to change, and to disappear.

Judging from the previous industrial and scientific and technological revolutions, the discovery of the causes of force and time is the road of human scientific development and the way to the birth of great scientists. Material philosophy and material science have guided the scientific development of human beings for 500 years, so let us welcome the science, technology and industrial revolution behind with a positive attitude.

The supreme principle of the universe is balance. (Liu, “道德经.宇宙本原的宣言”, (2024.5), (2024.8))

The basic energy(基础能量) and intelligent energy(智慧能量) is the concept of yin and yang, cause and factor in the universe, the two sides have the marriage of yin and yang and five elements, do not know what is it, was the concept. Scientific proof of concept is needed.

If existence in the universe were balanced, no energy or matter would be created, absolutely zero degrees. (Liu, (2024.8))

If there is an imbalance of existence in the universe, energy is created, and thus biomass. Everything is created, exists, moves, changes and disappears in thermal equilibrium. ( Liu (2024.8a) )

- Large Arrow  (Irreversible Process): Represents the creation (or destruction) processes that are unidirectional and cannot be reversed.
- Small Arrow  (Reversible Process): Represents processes that can oscillate or reverse, maintaining a dynamic balance.

Three States of Energy Balance:

1. Creation State: The phase where energy creates new forms of existence, leading to the birth of matter and energy entities.
2. Disappearance State: The phase where matter and energy entities decay or dissolve back into pure energy.
3. Existence, Motion, and Change State: The current phase where humans and all things exist, move, and change in a state of relative balance.

#### 4.2 The Force (原力)

According to “宇宙本原考”, the creation of particles and quarks is driven by a primordial force called “The Force.” This force is related to thermal energy, or it can be said to be thermal energy itself. In physics, thermal energy is a force that does not involve interactions but represents the existence and movement of matter and energy ( Longair, “Theoretical Concepts in Physics”). Analyzing from the fundamental concept of the universe, thermal energy is the yin-yang interaction of fundamental energy and intelligent energy, a primordial void force. This creative force is present throughout the entire existence of material energy.

Expressing this process using conventional time descriptors is difficult, as it represents the entire material universe's local existence within space.

If our material universe is the only one, it can be referred to as 1 (Liu, 2024.5). If there are other material universes beyond  $10^{100}$  light years, the size of this "1" cannot be determined. “宇宙本原考” posits that the universe is like a fireworks display, with countless fireworks, each with a lifespan in the order of hundreds of billions of years, varying in numbers and sizes, on the scale of hundreds of billions of light years (Liu, “宇宙本原考”). Humanity exists on a speck of dust within one of these fireworks. In such a scale, galaxies, galactic clusters, and even distances measured in light years or parsecs are

minuscule. We lack the capacity to contemplate the problem of infinite space. Therefore, we must respect space, seek blessings, and strive through our own efforts.

The existence, movement, and change of humanity and all things are manifestations of heat. Thermal energy represents the existence and movement of material energy, indicating the material universe. The fundamental basics energy's nature is unknown, but when imbalanced, it, together with intelligent energy, generates thermal energy and thermal force. All mechanics and energies are related to thermal energy and thermal force. Thus, it is judged that thermal force is the creative force, the primordial force (Liu, “宇宙本原考”). Humanity cannot create a perpetual motion machine. However, all existents are perpetual motion machines, all alive. (2024.5) (2024.8) (2024.7))

#### 4.3 Relativity

Existence is relative; it involves motion and change through mutual relationships, from zero to zero. Einstein's theory of relativity addresses the gravitational existence, motion, and change of material mass and energy. Other forms of energy and forces should have similar theories of relativity. Scientific research should aim to uncover all such theories. Once all theories of relativity are discovered, the mysteries of the universe will be revealed. There might be only one theory of relativity for matter (Liu, “万物生存考”).

The theory of thermodynamic relativity, which should be credited to Lord Kelvin and Professor Planck, posits that absolute zero is the ultimate limit in relativity. The universe's creation undergoes two stages: first, the creation of energy; second, the creation of matter. Determining to which stage Planck temperature belongs requires scientific judgment. The Planck constant is a fundamental physical constant for understanding the creation of the universe, while M-theory is a mathematical framework for this understanding. However, M-theory is not the ultimate theory, and it is important to avoid using terms like "ultimate" (Liu, 2024.5, 2024.7). Discovering a new theory of relativity could result in the emergence of an Einstein-level scientist.

Similarly, discovering a new force could lead to a Newton-level scientist, sparking an industrial and scientific revolution. This would elevate humanity's levels of material energy and desire (Liu, “宇宙本原考”).

#### 4.4 Force and Time

Using the principles of the fundamental nature of the universe and integrating known information, it can be concluded that force and time are the essence of all existence, encompassing motion, change, balance, and cycles (Liu, 2024.5). Force initiates existence and drives motion and change, while time governs direction and balance (Liu, 2024.5).

Time is related to all forms of force: gravity, mass, and the processes named by humans as the existence and life of matter (Heguanzi”鶴冠子”). Time is linked to electromagnetic force, strong force, and weak force, defining the energy existence and life of matter (Liu, “万物生存考”). Time is also related to thermal force, which is the life force of all existence. If force is considered an angel of the divine universe, then time is the greatest angel.

The weak force is a peculiar force associated with radiation. If other boson models in mechanics are correct, the boson model of the weak force in quantum mechanics might be flawed, as it should not have mass. This is because it represents an angel, an information cause. This hypothesis should be

verified. It can be asserted that the weak force is significantly related to the cause of time and the mass of matter (Liu, “宇宙本原考”, “人类本原考”).

The definition of the "second" by the International Committee for Weights and Measures might be coincidental (13th CGPM, 1969), yet it precisely expresses humanity's concept of time and echoes the ancestral idea of the time cause in the universe's fundamental nature. Studying the initial radiation waves of other atoms and statistically analyzing them could provide insights. However, this is merely one direction for researching the cause of time and is far from simple.

#### 4.5 Basic Energy and Intelligent Energy

Basicl energy and intelligent Basic energy are concepts designed in “宇宙本原考” to express and describe the causes and factors of the universe's void nature, represented by the yin and yang design concept.

##### *Basicl Energy:*

The exact nature of fundamental energy is unknown. It could be the primal origin of thermal energy, belonging to the category of energy but distinct from material energy. It is a divine or spiritual concept, not to be confused with material energy.

##### *Intelligent Energy:*

Even more elusive, intelligent energy represents the cause of information, akin to the angels of the divine universe. From current information, force and time fall into this category, representing causes of energy. This is not an energy concept but an informational concept. Are there other forms of intelligent energy or informational causes? Scientific thought is required to explore this. Considering the universe as a living entity could lead to greater understanding. (Liu (2024.7))

By contemplating the living nature of the universe, one can better grasp these complex ideas.

## V. CONCLUSION

For the survival and continued existence of humanity, science carries a heavy responsibility. There remain many unknowns awaiting exploration. A crucial issue is ensuring the survival and existence of humanity and our descendants; science must address this issue. I have written a letter to you, (Liu (2024.7)) though I am unsure if it has been received.

I hope that by applying scientific philosophy, we can redefine our understanding of space and time, justify zero-dimensional space, and reconsider existence within space. All existence is alive; we must use science to understand it. Death is not what we should fear; what is truly frightening is the potential for intelligent humanity to annihilate itself, losing our inherent compassion and becoming the monsters we define ourselves as, turning Earth into a hell. Both humanity and the universe possess a soul, and science should have one too.) (Liu, (A Letter to the Scientific Community))

If humanity were to cease existing, what purpose would exploring and discussing these topics serve? The goal of humanity's existence within the coordinate system is to let science play its role. Having retired, without the drive of material desires. More than 40 years of hard work, from the farming society into a modern society, from a poor child to an old man who does not worry about food and drink, living in a stable society, hoping to enjoy a pleasant life after retirement. I do not know why I have written these books and articles. An intrinsic void-like force compels me to do so. Although publishing books and articles costs money, I am more than willing to do it.

I do not know whether these ideas are right or wrong. It needs scientific confirmationI only know that this information comes from the fundamental concepts of the universe left by our ancestors. I hope this

information is positive and just for humanity. These are not ultimate truths but rather inspirational words, texts, numbers, and scientific information. For the sake of humanity's survival and existence, the existence and joyful survival of humanity are the supreme truths.

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