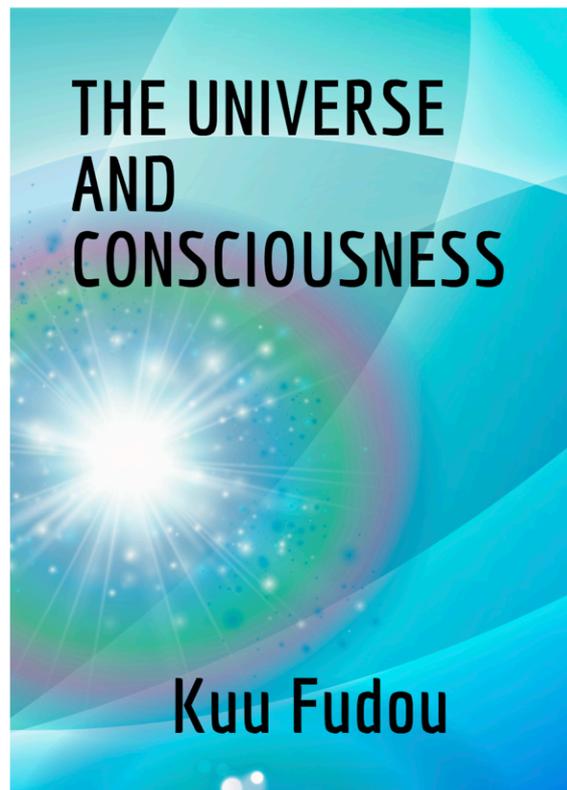


The universe and consciousness



Kuu Fudou



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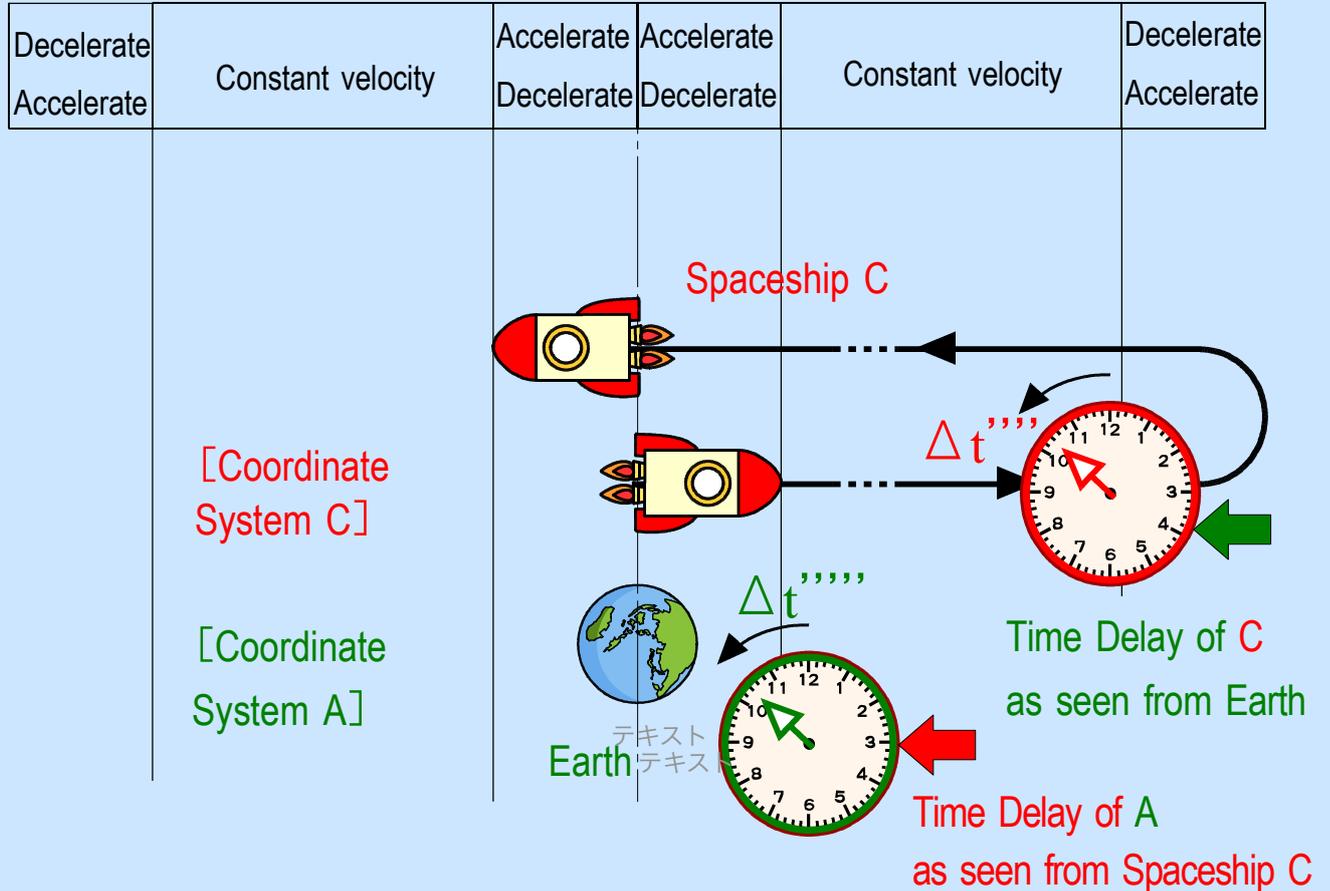
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Asymmetric model thought experiment (1)



[Coordinate System A] (Earth) and [Coordinate System C] (Spaceship) are asymmetrical in physics terms.

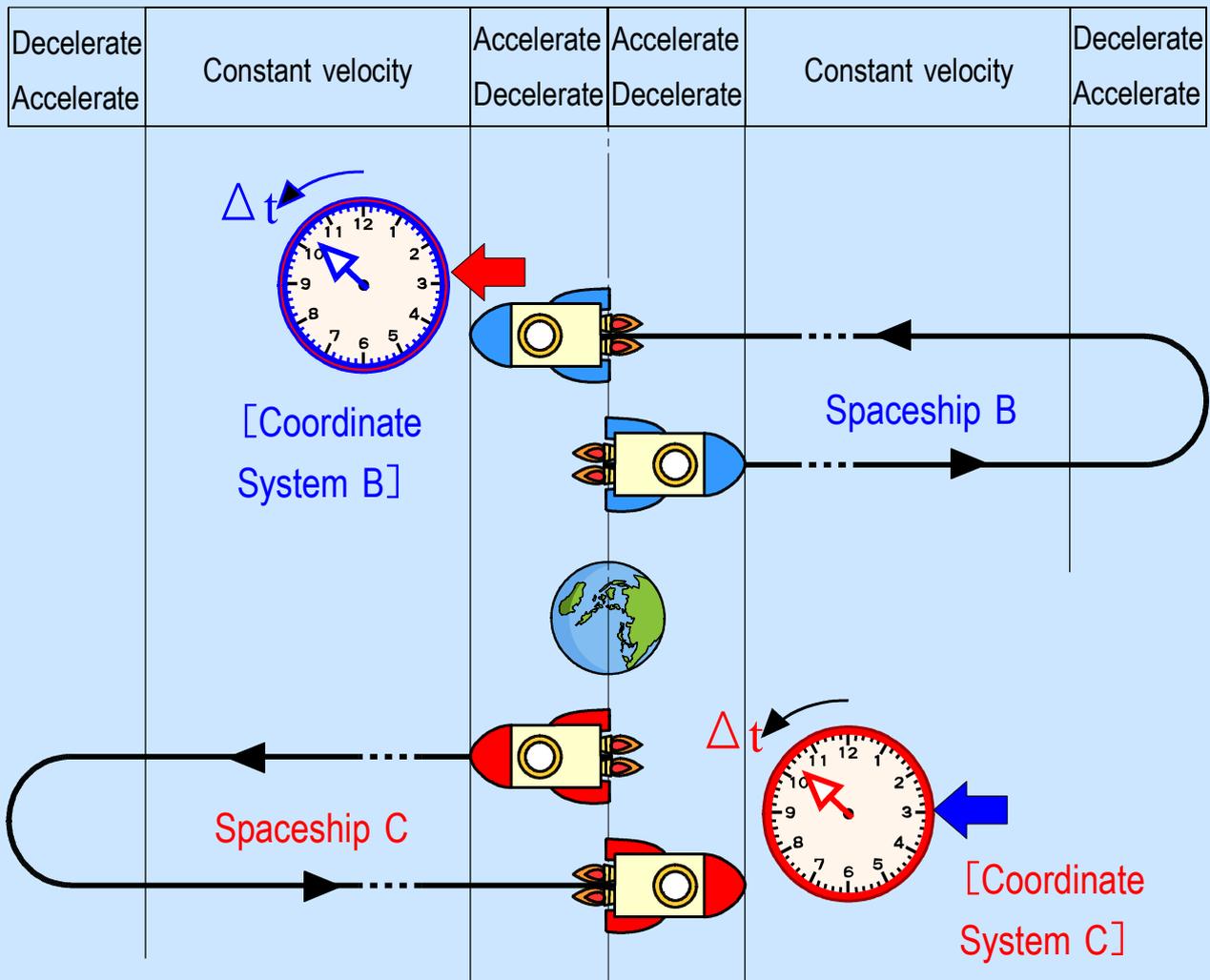
[Coordinate System A] and [Coordinate System C] are both affected asymmetrically by the Earth's gravity.

Distortions in near-Earth space complicate matters.

Effects due to special relativity need to be separated from effects due to general relativity.

Figure 1

Symmetric model thought experiment (3)

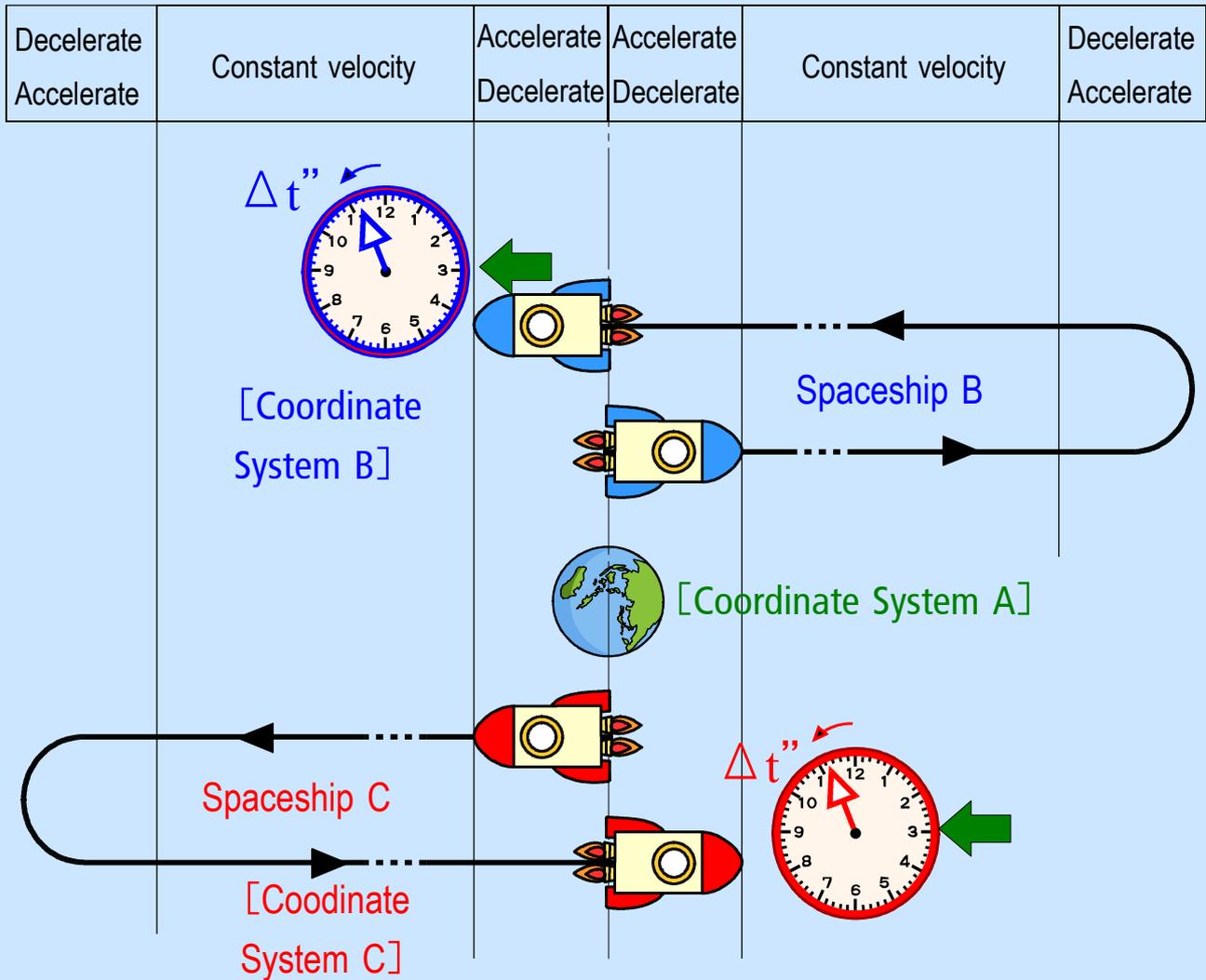


[Coordinate System B] and [Coordinate System C] are symmetrical.
 Spaceship B and Spaceship C are both affected by the Earth.
 This can mutually cancel the effects of gravity.

If we define [B→C]C as the clocks on C as seen from B.
 Then,
 [B→C]C = Δt / Similarly [C→B]B = Δt
 $\therefore \Delta t = \Delta t$

Figure 3

Symmetric model thought experiment (4)



Seen from [Coordinate System A], the [Coordinate System B] and [Coordinate System C] are symmetrical.

If we define [A→B]B as the clocks on B as seen from A.

Then,

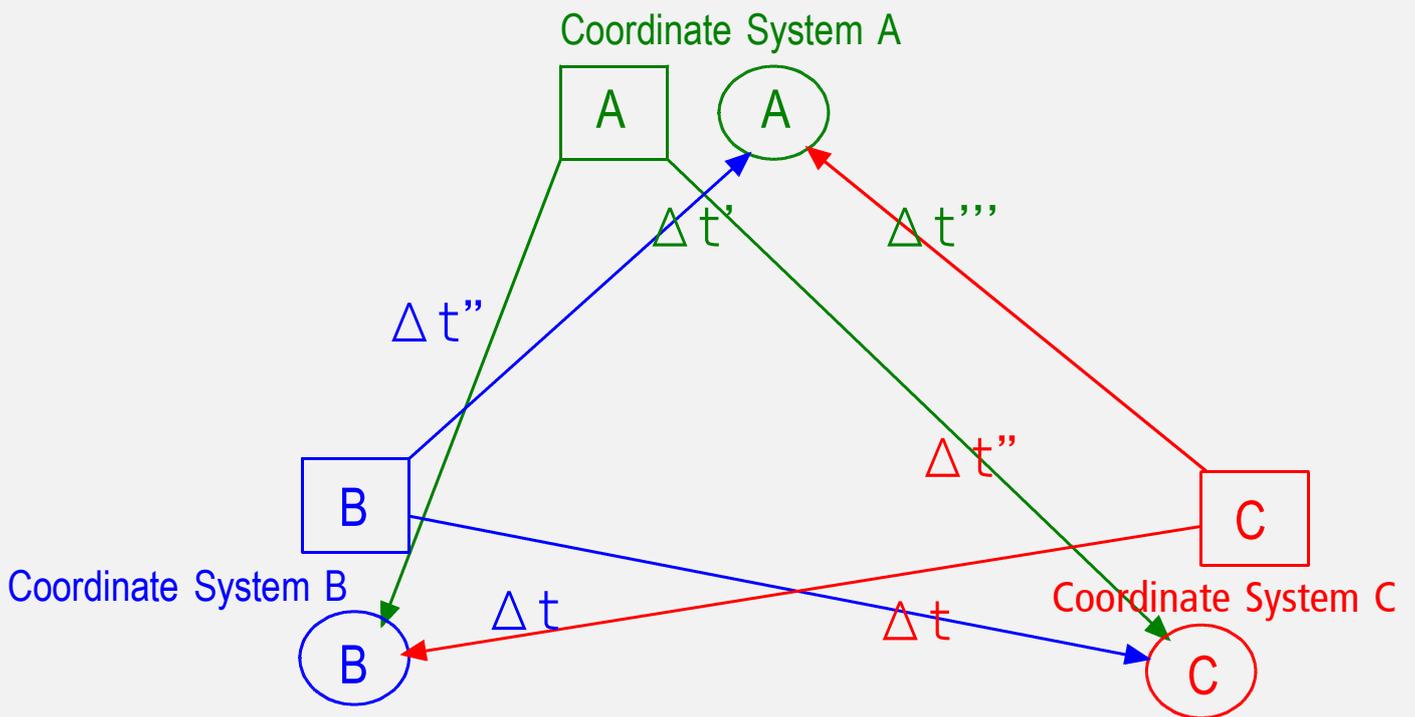
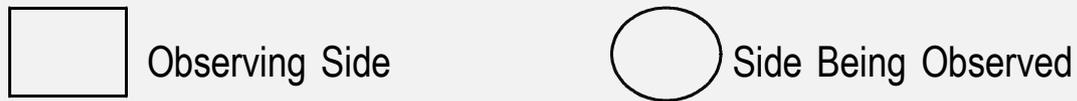
[A→B]B = $\Delta t''$ / Similarly [A→C]C = $\Delta t''$.

$\therefore \Delta t'' = \Delta t''$

$\Delta t'' = \Delta t''$ and the previous page $\Delta t = \Delta t$ contradicts common sense.

Figure 4

Introduction to the Many-Worlds Universe



$$\left\{ \begin{array}{l} \Delta t' \neq \Delta t''' \\ \Delta t'' = \Delta t'' \\ \Delta t = \Delta t \end{array} \right.$$

Within 4D space (x,y,z,t) , no solution satisfies the above relationships.
 Within 6D space (p,q,r,s,u,w) , a solution does exist.
 This evokes a Many-Worlds Universe.

Figure 5

Clock on satellite
as observed from
Earth

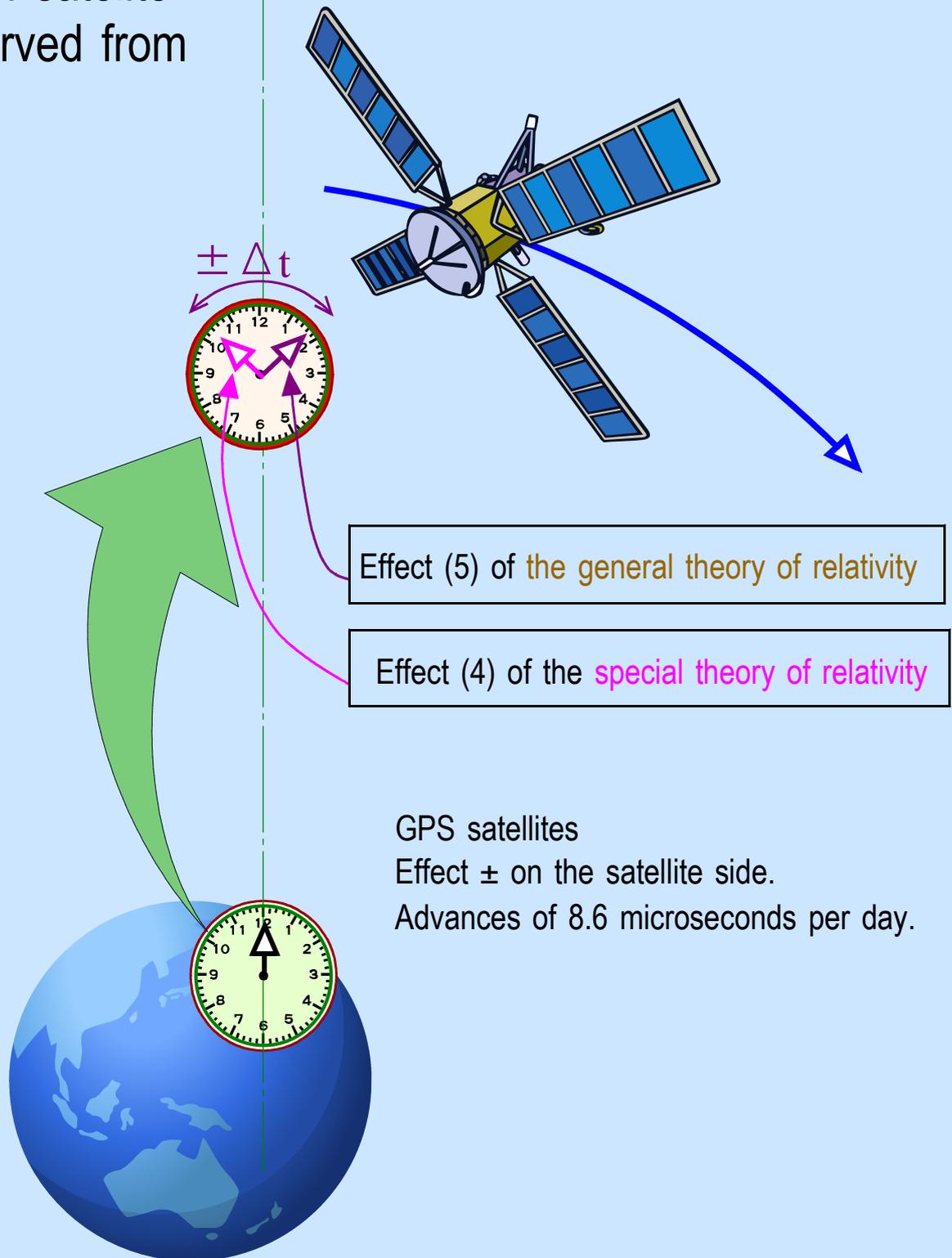


Figure 6

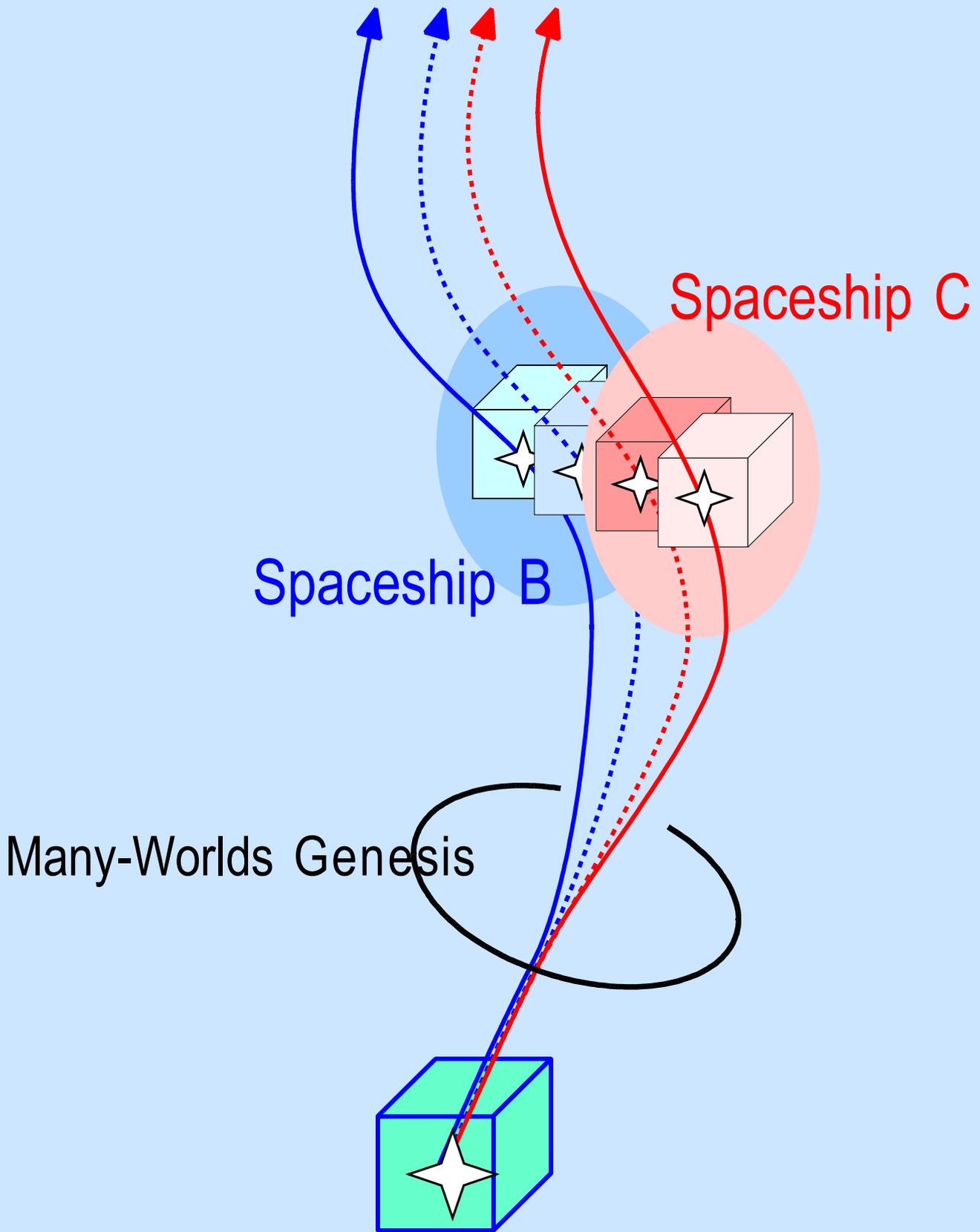


Figure 7

Double Slit Problem

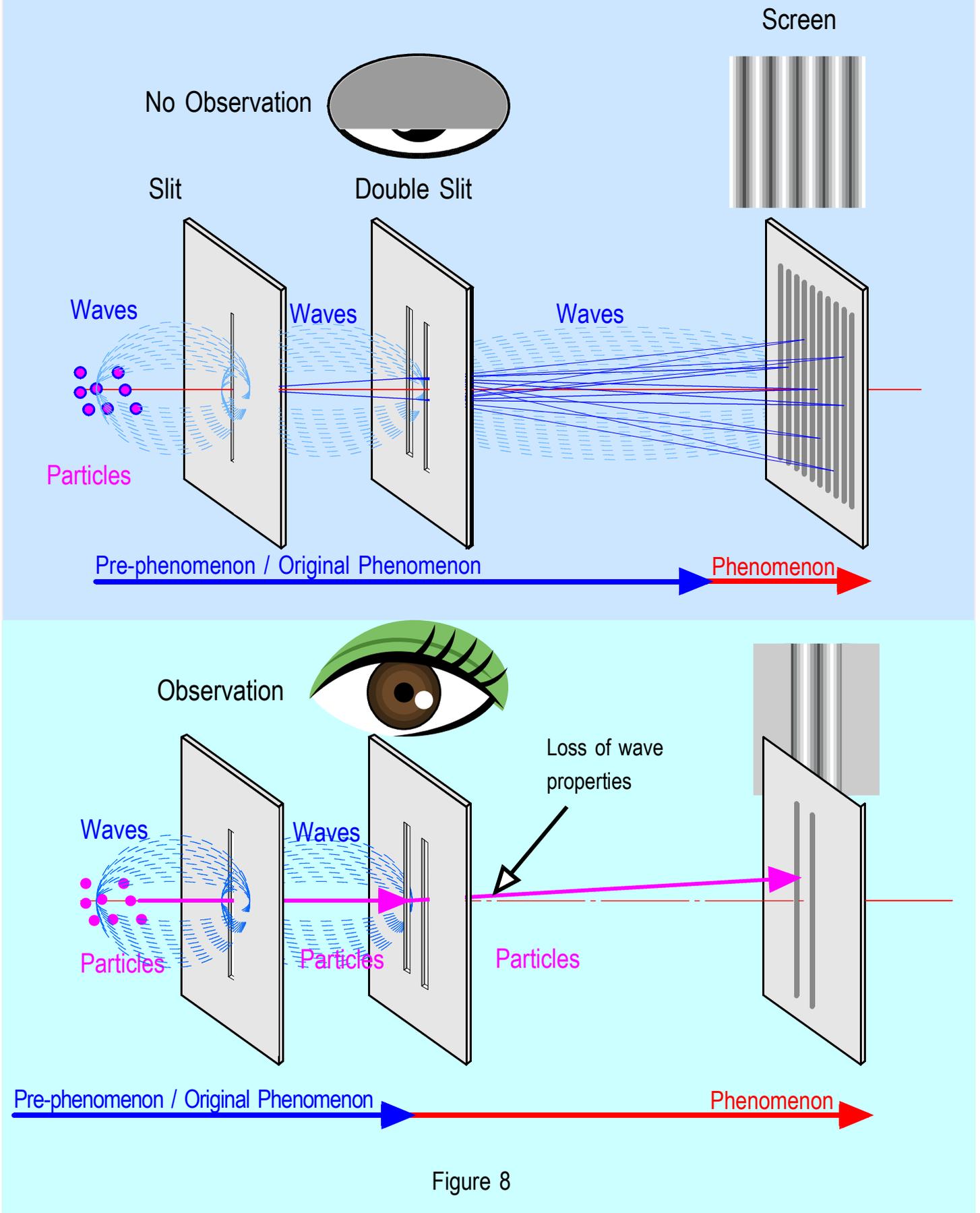
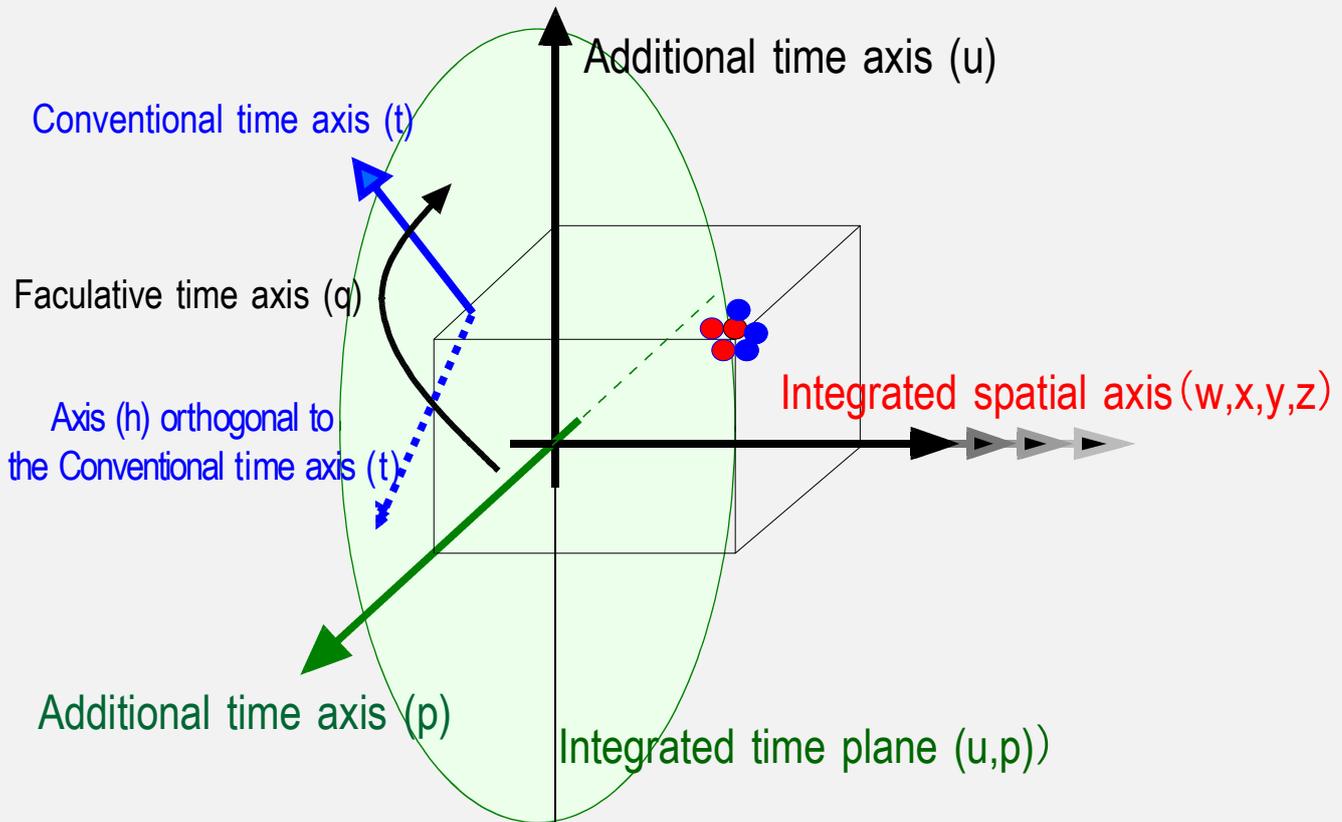


Figure 8

Integrated time plane (u,p)



The **Integrated spatial axis (w,x,y,z)** is defined as the Additional spatial axis (w) + the Conventional time axis (x,y,z).

The 2 axes that constitute the **integrated time plane (u,p)** orthogonal to the **Integrated spatial axes (w,x,y,z)** are orthogonal to each other.
The Faculative time axis (q) can take any direction as a curve in this plane.

In our world we have the **Conventional time axis (t)** and define the axis orthogonal to it as (h).

The origin is not (0,0) because the beginning of (q) and (t) are arbitrary.

Figure 9

Many-Worlds Universe

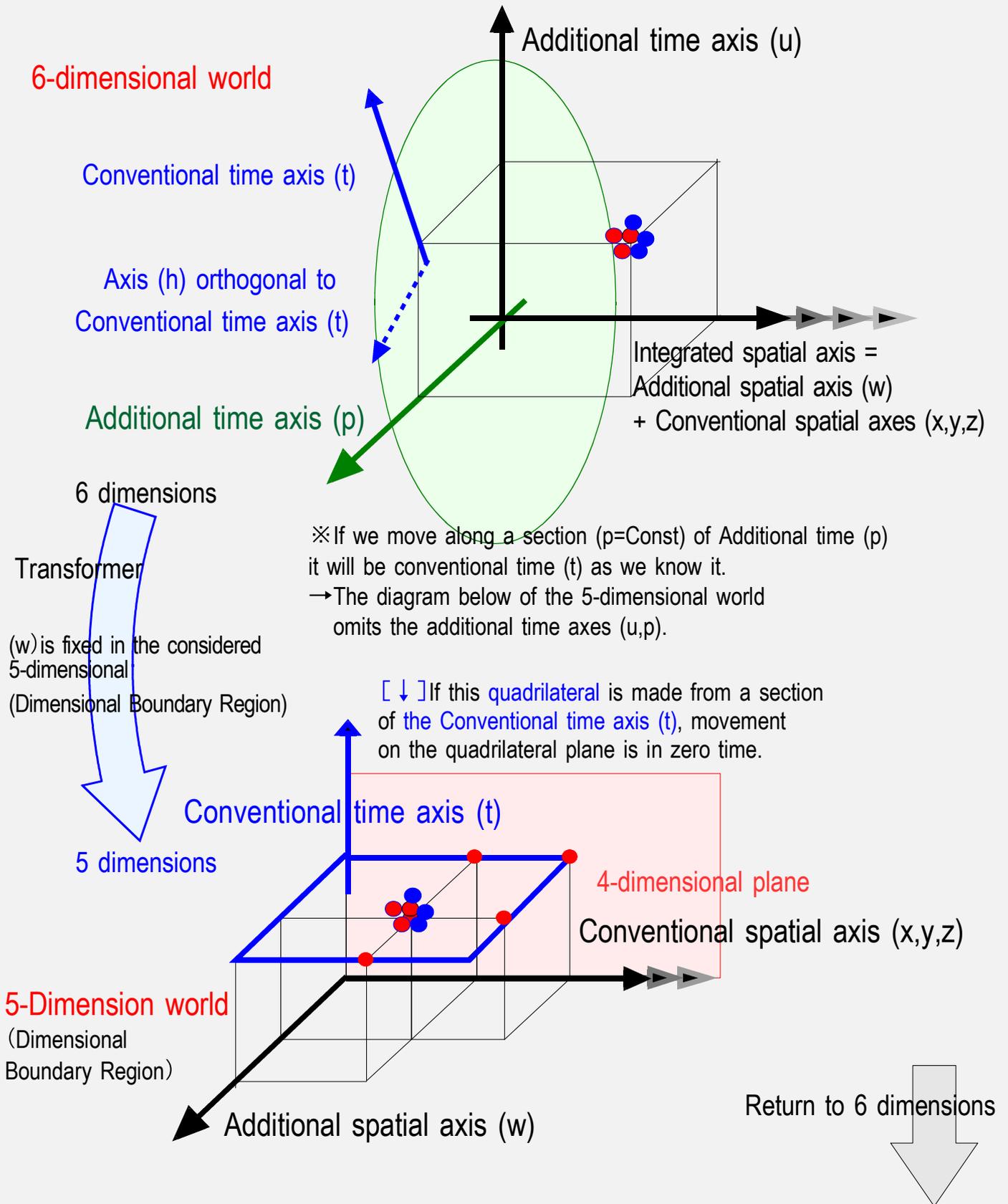
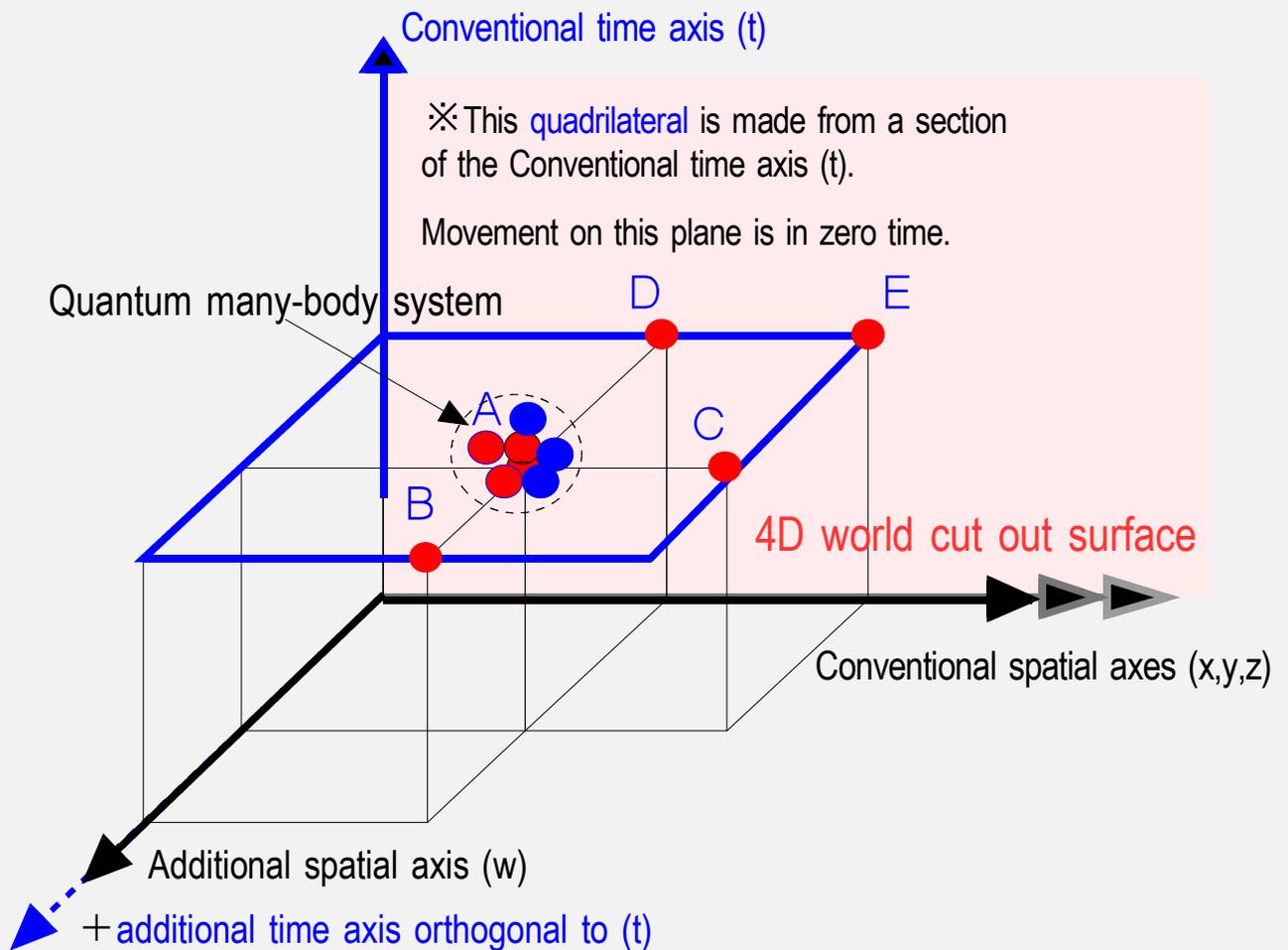


Figure 10

Next page

6-dimensional space



Explanation of 'quantum entanglement'.

- There is a quantum many-body system in six-dimensional space A.
- Particles in A move or transmit information to other B, C, D and E in zero time.
- D and E represent two points in a four-dimensional world.
- Time is limited for the transfer and signal transmission $D \rightarrow E$ and $E \rightarrow D$ in a 4D world. Quantum entanglement is not possible.
- $A \rightarrow D$, $A \rightarrow C$ and $C \rightarrow D$ is in zero time, and the reverse \leftarrow also is in zero time.
- The information change in E is transmitted $A \rightarrow C$, $C \rightarrow A$ and $A \rightarrow D$ in zero time.
- The same applies in the opposite direction. 'Quantum entanglement' is viable.

Figure 11

Cutting a 4-dimensional world out of a 6-dimensional world.

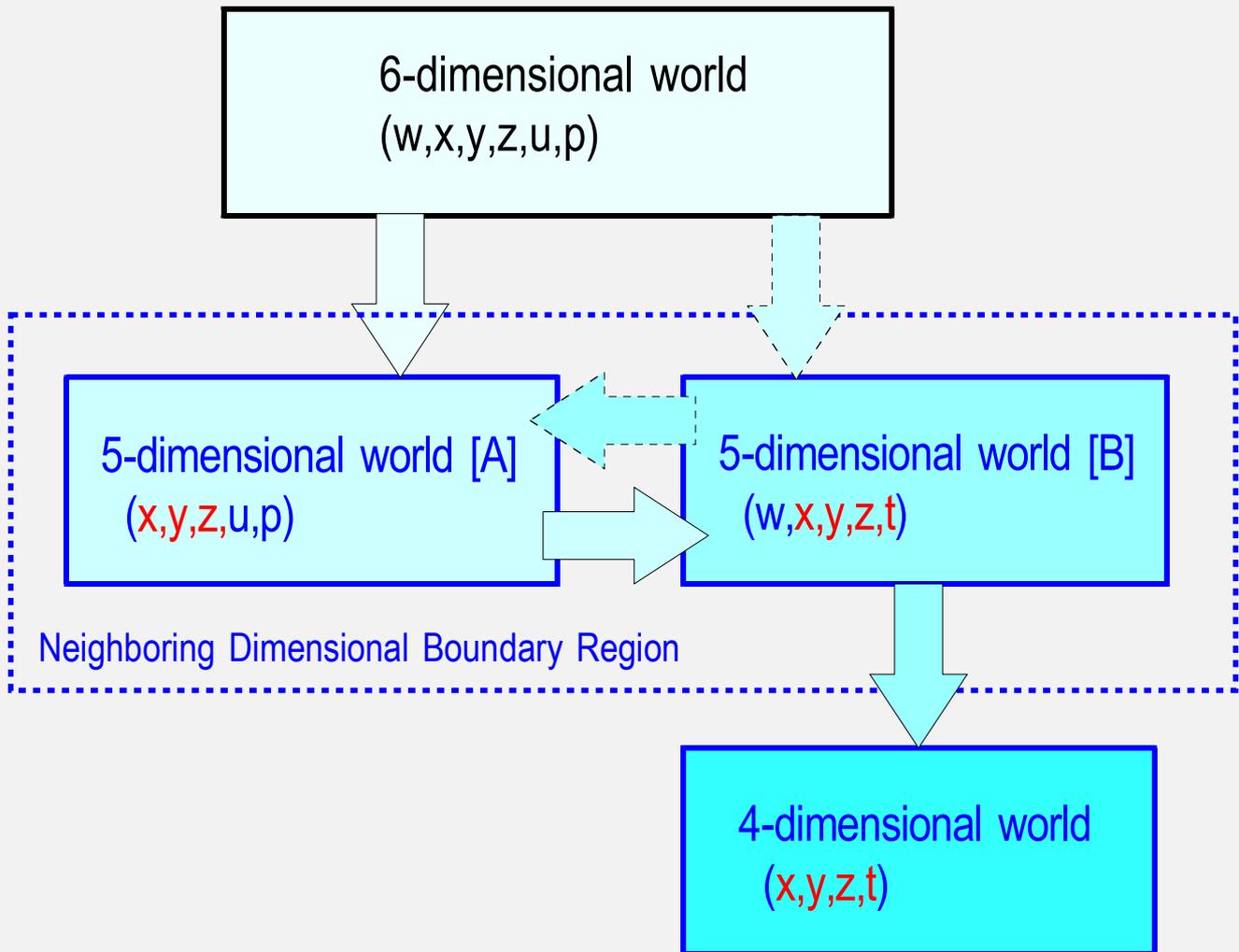


Figure 12

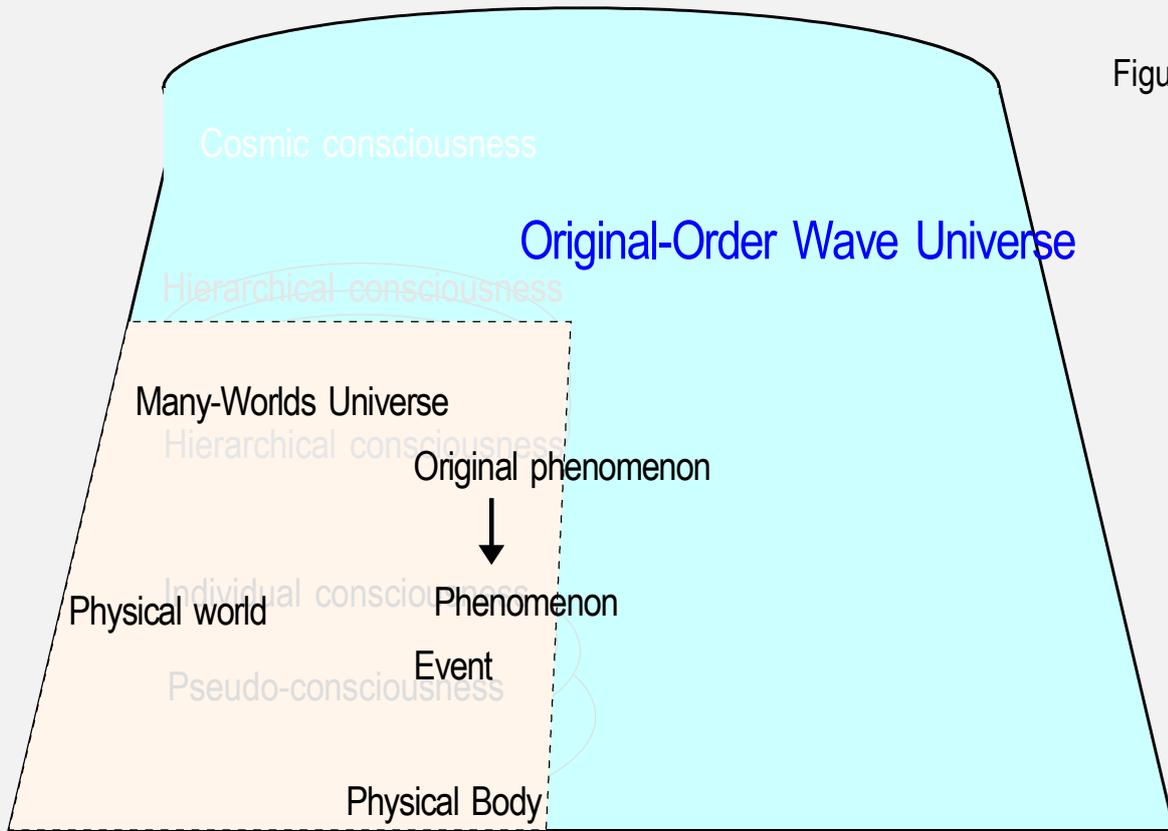


Figure 13A

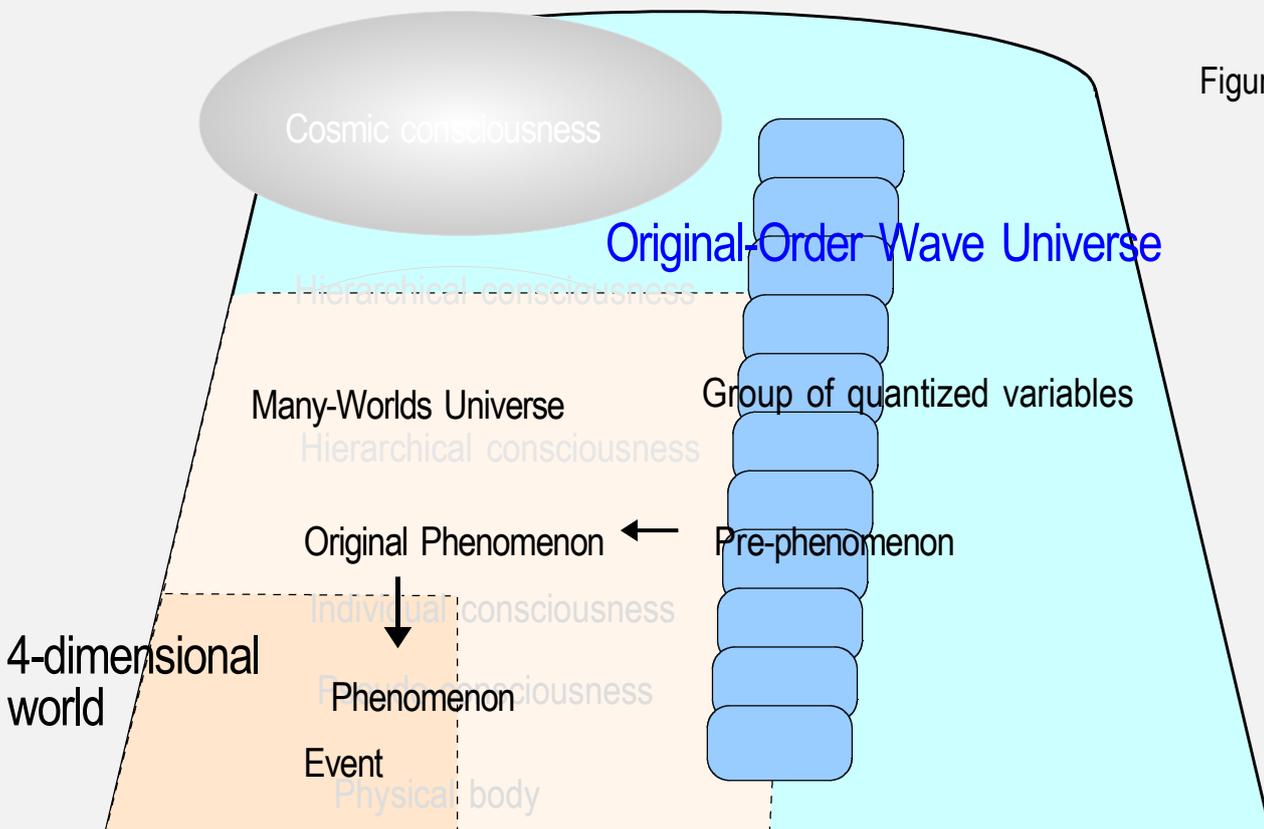


Figure 13B

The Original-Order Wave Universe separated from the cosmic consciousness

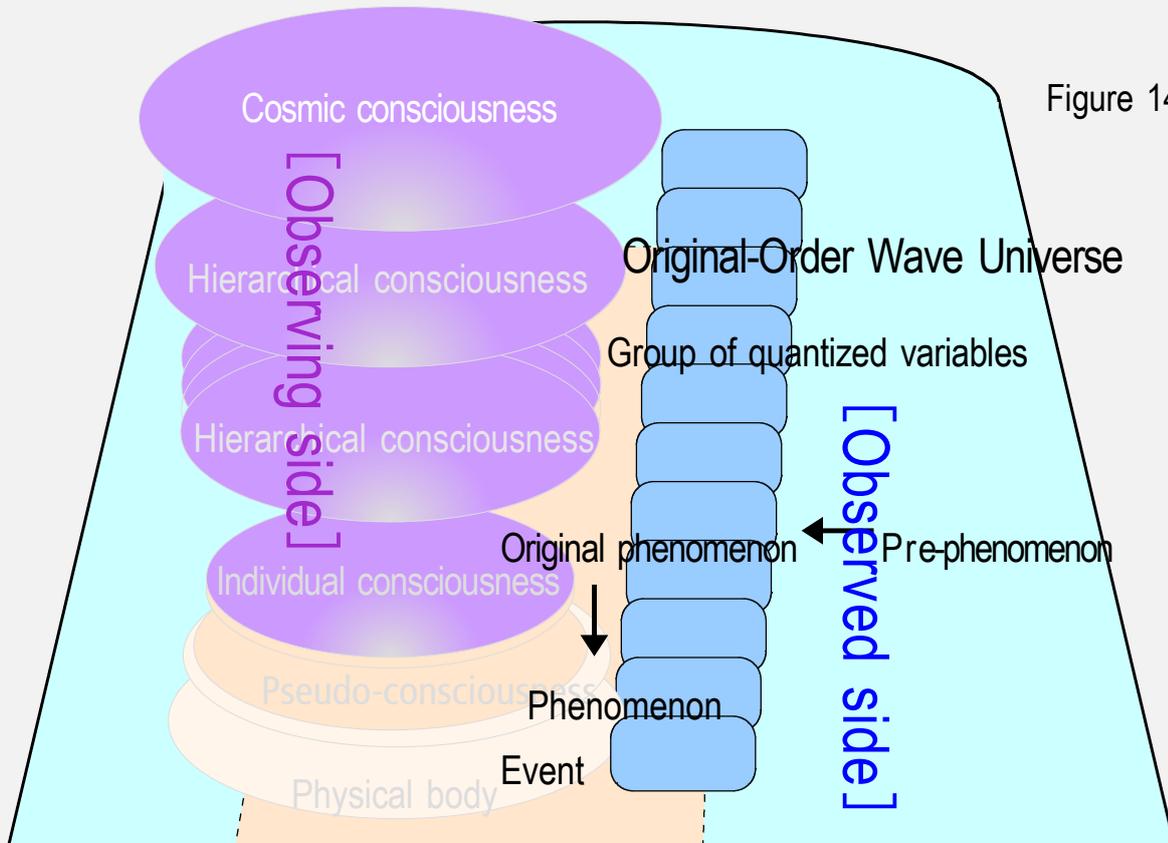


Figure 14A

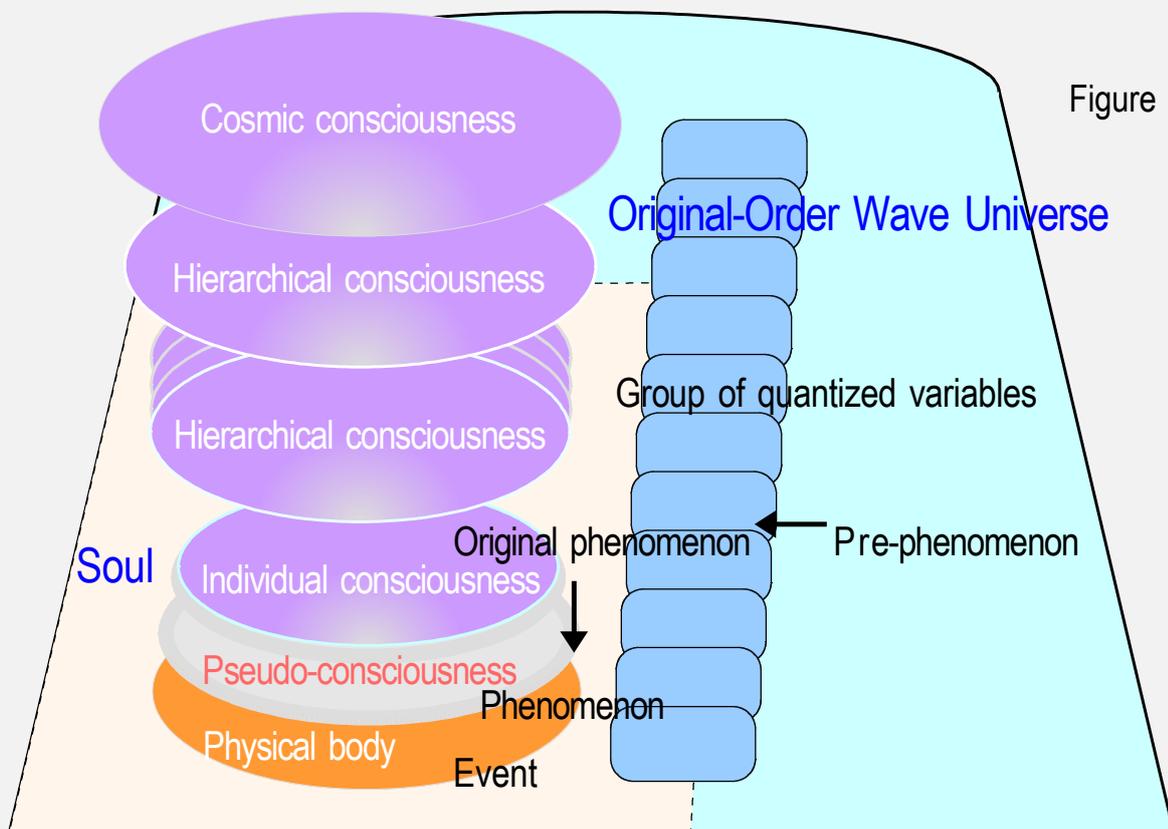


Figure 14B

Classification of the observer and the observed

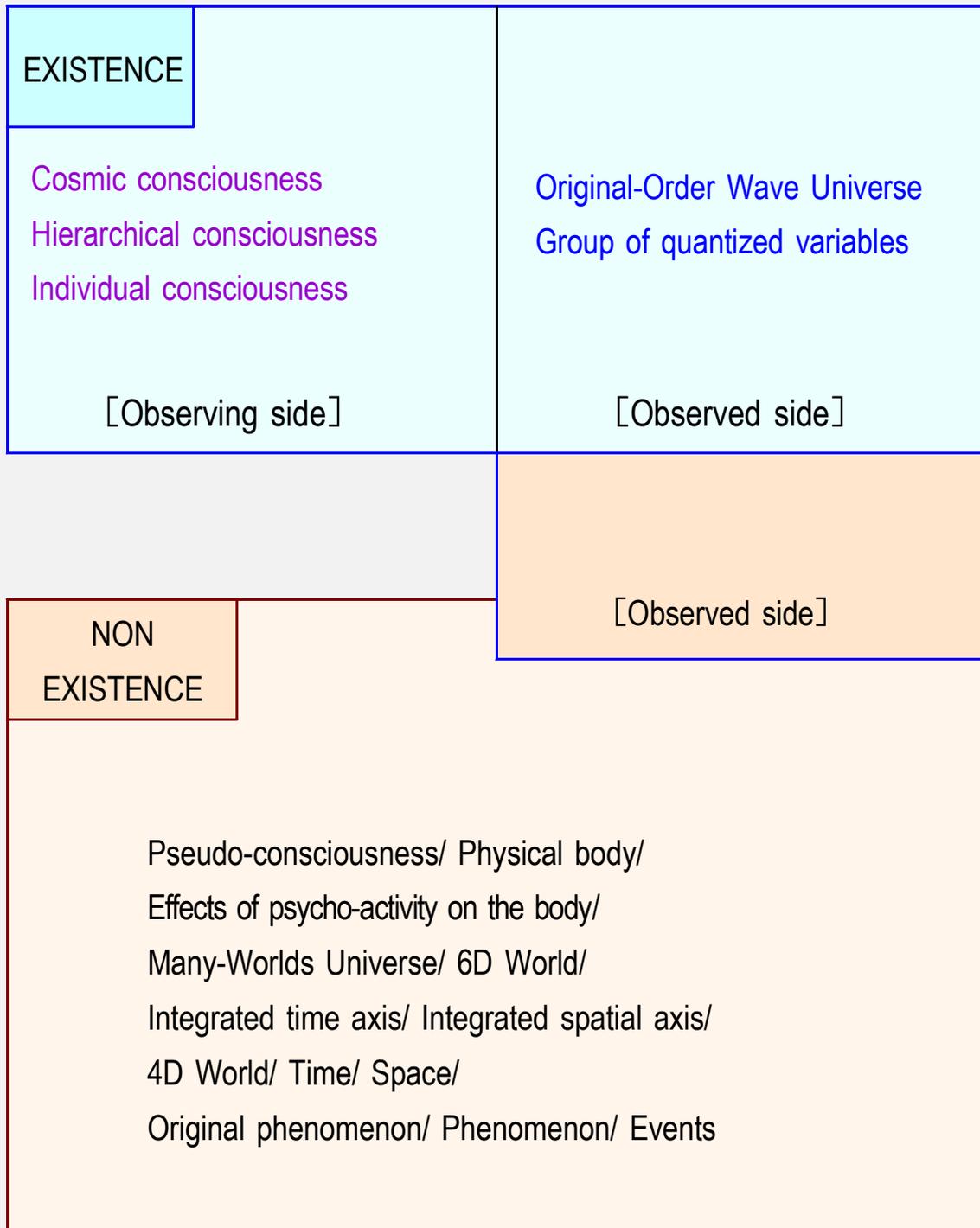


Figure 15

Correspondence to Heart Sutra [1]

EXISTENCE

Cosmic consciousness/ Hierarchical consciousness/ Individual consciousness/
Original-Order Wave Universe/ Group of quantized variables/
Effects of psycho-activity on consciousness/ Fractal resonance/

[Correspondence to Heart Sutra]

空 KUU (Cosmic ESSENCE)/ 色 SHIKI (Human ESSENCE)/
受想行識 VSSV* (Psycho-Activity)/ 諸法 SHOHOU (All Dharmas)
般若波羅蜜多 Prajna-paramita

NON EXISTENCE

Pseudo-consciousness/ Physical body/ Effects of psycho-activity on the body/
Many-Worlds Universe/ 6D World/
Integrated time axis/ Integrated spatial axis/
4D World/ Time/ Space/
Original phenomenon/ Phenomenon/ Events

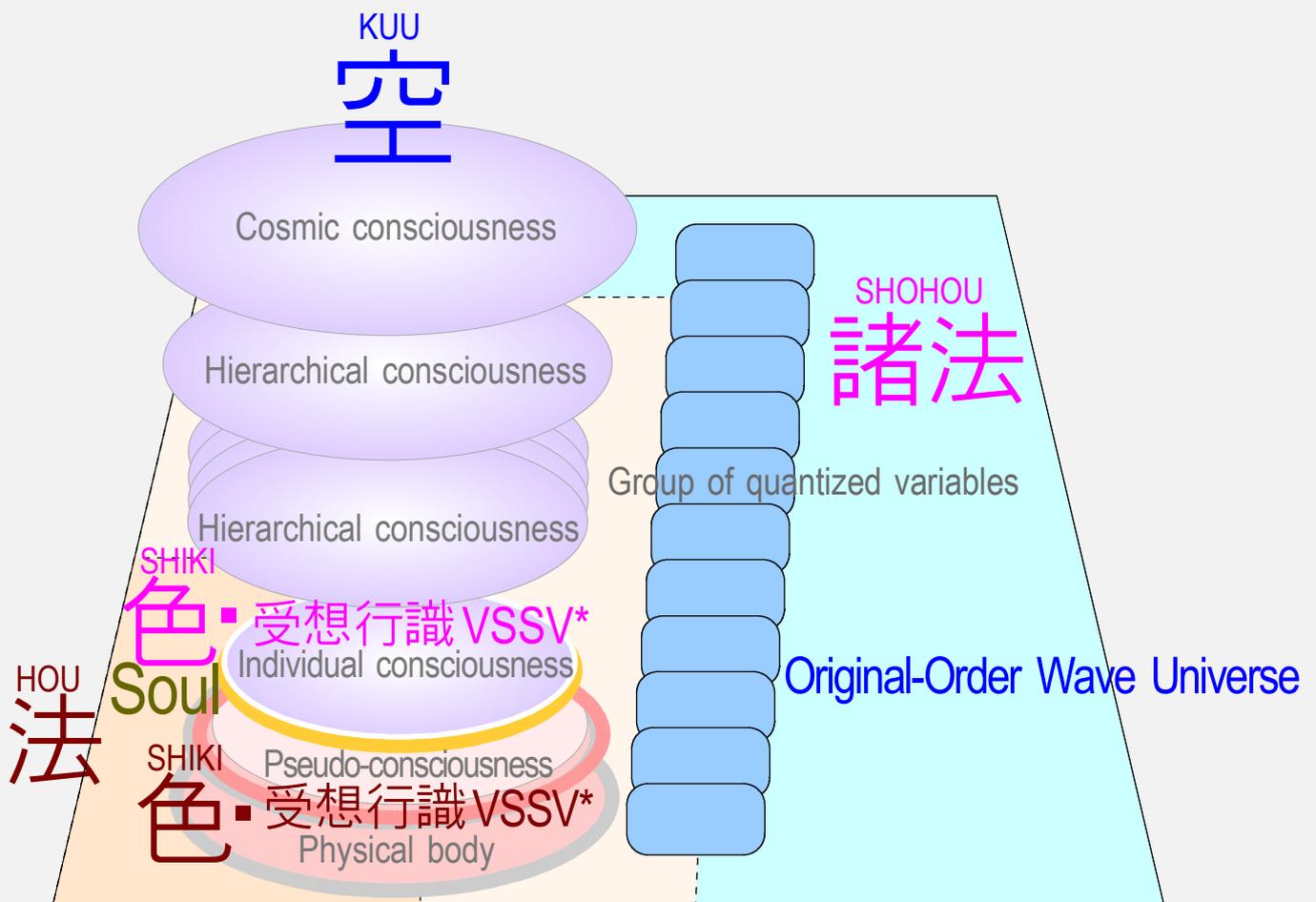
[Correspondence to Heart Sutra]

色 SHIKI (human body)/ 受想行識 VSSV* (psycho-activity)/
法 HOU (dharma)/ eyes, ears, nose, tongue, body, mind/
form, voice, smell, taste, touch, dharma/
world of human perception and consciousness ...

*abbreviated form of "vedana, samjna, samskara, vijnanani" in Sanskrit

Figure 16

Correspondence to Heart Sutra (般若心經) [2]



Correspondence to EXISTENCE

空 KUU (Cosmic ESSENCE) corresponds to cosmic consciousness,
 the soul to 色 SHIKI (Human ESSENCE),
 individual consciousness to 受想行識 VSSV* (Psycho-Activity)
 and 諸法 SHOHOU (All Dharmas) correspond to the Original-Order Universe.
 The Prajna-paramita 般若波羅蜜多 corresponds to Fractal resonance.

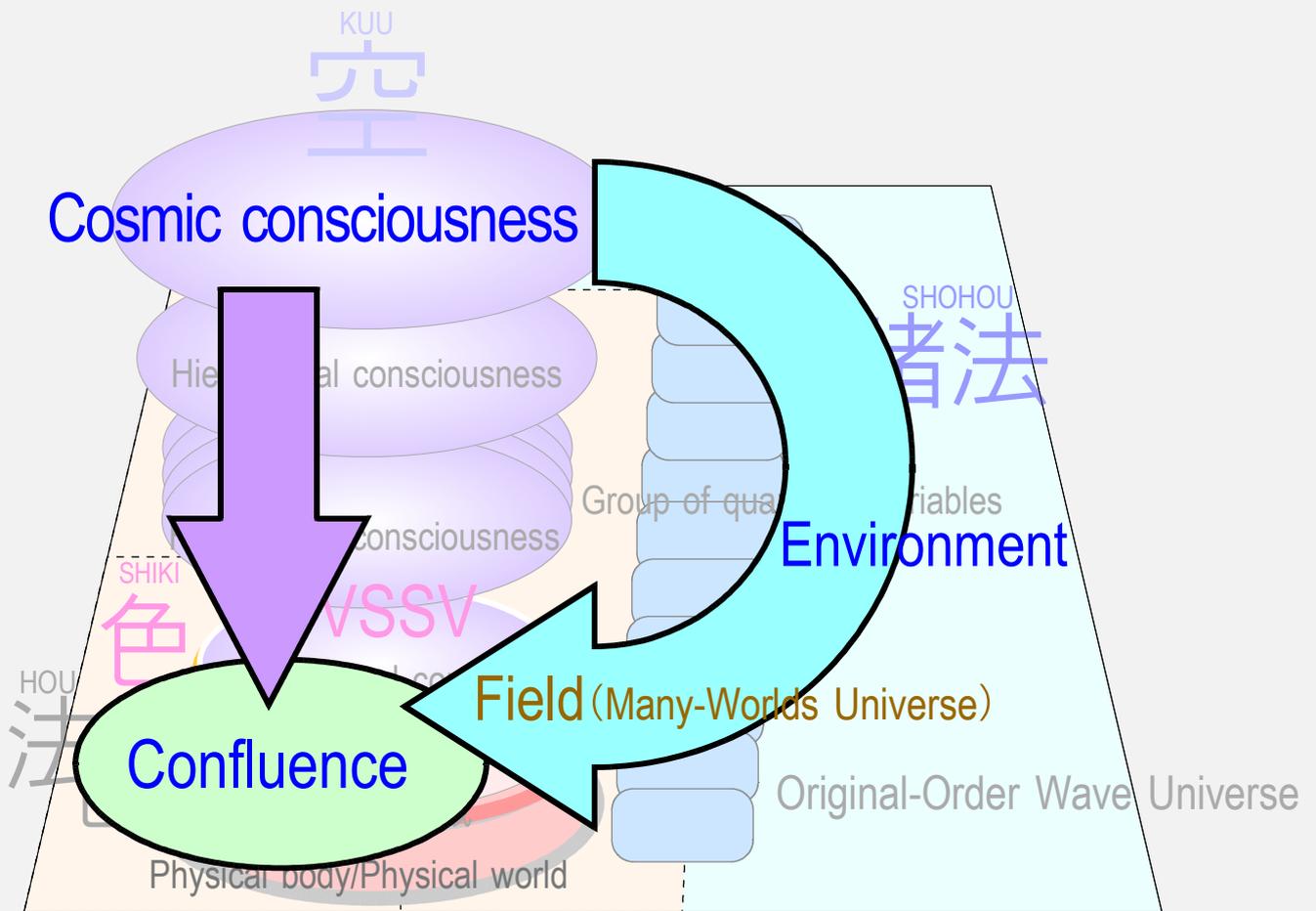
Correspondence to NON-EXISTENCE

色 SHIKI (human body) corresponds to the physical body,
 受想行識 VSSV* (psycho-activity) to the pseudo-consciousness,
 法 HOU (dharma) to our four-dimensional world carved out of the Many-Worlds Universe.

*abbreviated form of "vedana, samjna, samskara, vijnanani" in Sanskrit

Figure 17

Cosmic consciousness and alter ego re-unite



Cosmic consciousness first separated into two: **itself** and **the environment**.
The environment is the idea and policy of activity, and both are [EXISTENCE].
The environment created **the 'field' or location** of life activity that is **the Many-Worlds Universe**.
 This is a creation and [NON-EXISTENCE].

The separate route from **cosmic consciousness** to **individual consciousness** re-unite with the other route in **the field** created from **the environment**.
 In other words, after splitting into two routes **the cosmic consciousness** re-unites in **the Many-Worlds Universe**.

Figure 18

□Foreword

I have had a long-held desire to pen something about the image of the universe.

When I say 'the universe', I am not only talking about merely the physical universe, but from the standpoint in which the universe and human beings are inseparable.

I have already published some video lectures on this topic, so I intend to expand on those lectures and further elaborate on some of the concepts raised there.

Having had a special interest in the universe since childhood, I wanted to know more about the universe and human beings, and so I specialised in physics at university. However, looking back, at that point in my life now I realize that, though I enjoyed the study of physics, I did not have a coherent and systematic understanding of it.

My knowledge was too immature to make any expansions in the field, and there were a great many things I did not understand. But in hindsight, "Not pretending to know what I didn't, and simply admitting that I didn't understand something when I didn't" was a fine way to think.

I continued to be interested in the progress of physics beyond that stage in life, and now I am finally able to comprehend some of the things that I couldn't understand then.

My 11 years of experience working as a researcher at a national university research institute, in a field that borders the studies of engineering and medical science, has given me confidence that physics can be the basis of all disciplines.

Naturally, it was there that I learned how to conduct research and write papers, however, I also learned that the position of an academic researcher carries the risk of being excluded or being treated as eccentric if one does not conform to the prevailing common sense of the time. This knowledge, along with an awareness of the evident problems at the time, would stand me in good stead in life.

I went on to set up an IT company and in the course of my corporate activities, conducted research and development mainly in the field of image processing along with researching the mechanisms of the human brain. So as a corporate manager, I continued to make deep contributions to society.

When you are involved in the running of a company, whether you want to or not, you have to create an organization, take responsibility for the finances, deal with governments and society at large, and this experience taught me a great deal about life.

Through my corporate management experience and my research in image processing, I became more and more closely connected with the image of the universe I was seeking.

And yet, of course, my main concern has always been the relationship between the universe and human beings, the establishment of an image of the universe and knowledge of its origins.

I have always been conscious of the problem of the image of the universe and the relationship between

the universe and human beings, and I have had various supernatural experiences, that accumulated over several decades, and eventually the concepts I had been warming up to started to fit together naturally in my mind.

I found that I was living my life based on this image of the universe and spent my life interpreting this image of the universe. And I feel that this interpretation would be a great help for the reader as well.

That is why I believe I am ideally qualified to write about this expansive topic.

Hence, I felt that it was time to consolidate my findings and began to write what became this book. As I started to write, the writing process progressed surprisingly smoothly, so I decided to continue to the end.

In this book, I will describe a theory that I named the 'Many-Worlds Universe Genesis theory' that concerns the stages before and after the emergence of the Many-Worlds Universe.

And this 'Many-Worlds Universe Genesis theory' that I propose, is very different from the

conventional Many-Worlds Theory, and it shares commonality only in the aspect of there being "a universe with many worlds".

I have arrived at this image of the universe as a result of my systematic study of it, based on my many years of observation and various experiences. As I began to write, a sudden process of resolutions and multiple new connections began to consolidate. Experiences and circumstances suddenly became relevant and had significant implications.

At first glance, the world of physics seems to be a neat and consistent field, but in fact there seem to be several contradictions that cannot be solved by a mere extension of current theories, and which deviate from logic.

By looking deeply into the areas where the logic of physics seems to break down, we can sometimes discover a gateway to the world of consciousness. In this book, I will try to find the connection between physics and the world of consciousness by examining some of these paradoxes.

Many readers, however, are not accustomed to

discussions that take us from the world of physics and into the wider world of consciousness. So, the author has had to prepare from scratch a way of constructing an argument about the intersection of the world of physics, which we think of as being external ourselves, and the world of consciousness, which we think of as an internal pursuit.

If you read this book, please pick up only the parts you can comprehend, and just let go of the parts you cannot. I would like you to keep your awareness of the issues in discussion as we progress, and if you get confused, take a break, let it mature for a while, and then read it again, so that you can eventually understand it as a series of connected concepts.

I have tried to keep this book interesting even for anyone who may feel they have an ineptitude in the field of physics.

I have tried to keep some of the technical words and phrases that appear in the book to a minimum, but on first reading, it would suffice to just get a feel for the subject matter.

I use many illustrations and diagrams and explain

the same concepts many times from various points of view, defining new words as I write. Each time a new word or phrase is defined, the new word or phrase will deepen the discussion one step at a time, and the discussion will switch back and thus proceed in a back and forth like movement, so that the reader can deepen his or her understanding one step at a time.

Truth cannot be expressed in words nor does it lie in theories, so we cannot state that this is the truth as is, but an aspect of truth, which, if presented to the world making, use of theoretical and universal expressions, can bring hope for a confused humanity.

○ **First, it is vital to understand the achievements of modern physics.**

Let us do a quick review of the history of physics. There are the well-known Special Theory of Relativity (1905) and the General Theory of Relativity (1915-1916) by Einstein.

Einstein was one of the founders of modern physics from a macroscopic point of view, fundamentally changing our methods and ways of thinking about physics. On the other hand, Einstein was also involved in the development of quantum mechanics from a microscopic point of view and laid the foundations for modern physics with the duality of particles and waves, the uncertainty principle, and the Schrödinger equation. In addition to Einstein, Poincaré, Schrödinger, de Broglie, Dirac, among others established modern physics.

It should be noted, however, that even in the present day, the integration of macroscopic and microscopic physics has not been achieved.

There is a system of equations dealing with the universe that physics has arrived at over the last hundred years. It has been summarised as the

Standard Model.

The Standard Model describes the world as consisting of four subatomic particles (electrons, neutrinos, and two quarks) and three forces (the electromagnetic force, the weak nuclear force, and the strong nuclear force). According to this Standard Model, modern physics interprets the universe since the Big Bang as follows.

"The universe came into being according to a blueprint, in the form of God, and was initially perfectly symmetrical according to the blueprint. The symmetries are rotational symmetry, translational symmetry, Lorentzian symmetry, gauge symmetry, non-commutative gauge symmetry, and chiral symmetry. In these symmetries, all elementary particles had no weight and flew apart. However, due to "spontaneous symmetry breaking" caused by the Higgs boson and other particles, subatomic particles were given weight. As a result, subatomic particles coalesced, atoms were formed, stars began to shine, and galaxies were formed."

I have decided that I am not in a position to evaluate the views of modern physics. So I intend to write this book in keeping with this stance and without deviating from my own scope. I am not sure, however, that I will be able to maintain this stance to the end.

So often there will be instances where I speak using the words and terminology of others, not my own.

The Standard Model, the culmination of human knowledge, has yet to address the question of gravity.

Moreover, according to Planck's theory, published in 2013 and still at the hypothetical stage, dark energy and dark matter account for about 68.38% and 26.8%, respectively, of the total mass of the universe. Yet the Standard Model does not account for this at all.

In other words, the Standard Model still explains only a small part of the universe and can be overturned at any moment. And the physicists involved in its research are not content to accept it as a complete theory, they want it to fail and

purposefully look for areas in which it can be proven to fail.

I am writing based on an assumption that the reader is not deeply familiar with physics. Therefore, I will try to explain, where possible, any new concepts that appear from time to time.

But first of all, I would like you to know that the study of quantum mechanics, which deals with microstructures, starts with the Schrödinger equation. It is the first equation that appears in the subject of quantum mechanics at university, and it is the one that makes students very confused. And I was puzzled by it too. In fact, I still remain in that same state of bewilderment from that time.

So, if the basic premise of the Schrödinger equation, which corresponds to this world with four independent variables (x,y,z,t) , i.e. a four-dimensional world, is broken, then quantum mechanics will immediately collapse.

Therefore, the author's policy is to revisit the Schrödinger equation, which is the basic premise of quantum mechanics, and Dirac's equation, which

was developed from it.

And next, I want to make it clear that the 'standard theory' - that is, modern physics - has no answer to the author's search for a relationship between the universe and consciousness.

First of all, whether the universe is indeed a four-dimensional world or not, it still begs the question of how much sense there is in pursuing symmetry in a four-dimensional world without first determining the real dimensions of the universe.

Secondly, the Standard Model is built independently, without taking consciousness into consideration. So at first glance, it would seem that there is no room for consciousness in modern physics.

Therefore, from a completely different point of view, the author will point out some contradictions in modern physics, to force a crack in the four-dimensional world, show the intervention of consciousness in it, and finally talk about a universe with consciousness as its central character.

I hope that one day we will be able to comprehend

the wave functions that describe everything in the universe, including consciousness.

Just having an understanding of this knowledge is sufficient to carry out the discussion. We will deepen the discussion, adding new concepts as necessary.

□ Chapter 1

What happens at the 'limits of the four-dimensional world'?

○ **The theory of special relativity and the 'Limits of the four-dimensional World'**

■ Is the Urashima effect real?

It is common knowledge that when you travel in space at near-light speed, time is delayed to an extent that when you return to earth, everyone around you has aged and you have not aged as much.

And that it is based on Einstein's principle of relativity is a well-known modern-day fact.

This strange phenomenon, where everyone around you is getting older and you are the only one who stays young, is often referred to as the "Urashima

effect" - but is it really true?

This special theory of relativity consists of the Lorentz transformations, a set of formulae that anyone can follow, but the implications of the results are truly baffling.

The whole concept was derived from Einstein's early work on special relativity, but in all honesty, I had a hard time understanding the significance of these puzzling conclusions.

That said, however, I would never envy someone who claimed to understand it.

I was very concerned about the implications of this special theory of relativity. And I could not find any literature or references to answer my questions.

After racking my brains fruitlessly over the issue for a while, I finally concluded, "If that is the case, there is no other option than to rethink the whole thing on my own from the start".

So, this time, I decided to place the special theory of relativity within my own 'Many-Worlds Universe Genesis theory', and make a series of deductions

based on this 'Many-Worlds Universe Genesis theory'.

In the following pages, I will try to clarify the issues and their solutions as clearly as possible, so that anyone with some interest in the topic can comprehend it.

■According to the special theory of relativity, a fast-moving object experiences a time delay $[\Delta t]$.

Let us start with a brief overview of special relativity. The theory is not that difficult to understand, so please do not worry about your level of comprehension here.

In an inertial coordinate system, the Lorentz transformation is the equation that shows the shortening of the spatial axis and the delay in time in an object moving with velocity v .

The Lorentz transformation is the basis for the relationship between an object moving at near-light

speed, such as a spaceship, and its observation from Earth.

The Lorentz transformation equation became particularly famous because it was cited and used by Einstein to construct his special theory of relativity.

Before that, light was thought to propagate through the then undiscovered medium of the ether.

Michelson Morley's experiments showed that the speed of light is constant, 300,000 km/s, and that this was the limit of all speeds. Furthermore, even if you accelerate an object, it can never exceed the speed of light. In other words, if you shoot a beam of light out of a speeding airplane, it will still travel at the speed of light.

Einstein used the Lorentz transformation formula to deny the existence of an ether, which had been thought to be the medium of light.

Although near-light speed is by no means a requirement here, the effect is more pronounced when traveling at near-light speed.

A comprehension of the theory of special relativity to this level is sufficient for the purpose of this

book.

According to the Lorentz transformation derived from the principle of the invariance of the speed of light, the speed of light is taken as a limit, so that space-time is no longer linear and the classical laws of physics simply do not hold. The result is that as an object moving away from or approaching the observer approaches the speed of light, the time progress of the moving object is retarded by a time delay $[\Delta t]$.

And this is what makes the Urashima Effect.
So let us move on to examine the Urashima effect.

■A symmetrical model compensates for the lack of a key perspective.

The Urashima effect is often described in relation to the Earth and the spaceships that fly out from it.

Let the coordinate system of the Earth A be [coordinate system A] and the coordinate system of

the spaceship C be [coordinate system C]. The spaceship C leaves the earth, which has strong gravity, moves at near-light speed, decelerates en route, then turns, accelerates, and returns to the earth again at near-light speed.

In this setting, obviously, coordinate system A and C are asymmetrical to each other, and at this time, observing from Earth A, when spaceship C returns to Earth, time is said to be delayed [$\Sigma\Delta t$].

This is an example of a conventional asymmetrical model, where the relationship between the Earth and the spaceship is asymmetric. (Figure 1)

However, this asymmetrical model leaves out an important perspective.

If you think about it, "the time delay [Δt] should not only occur when spaceship C is seen from the earth, but should also occur when the earth is seen from spaceship C. We have to attach a great deal of importance to this perspective."

In this model, it is not clear how much delay is observed from each side.

In fact, a similar issue was raised by Einstein himself, and has gone down in history as the "twin paradox" (1911 Paul Langevin).

In it, one of a pair of twin brothers remains on Earth while the other travels through space and later returns to Earth. On meeting, they both decide that the other side has been delayed in time and that both are younger than the other, not older. This is known as the 'twin paradox'.

This "twin paradox" remains a paradox since it cannot be discussed precisely due to the asymmetrical model having different conditions for the Earth and the spaceship respectively, in my opinion.

Therefore, this author thinks that "the time delay $[\Delta t]$ should be discussed equally from both standpoints by means of a symmetrical model with no bias in viewpoint". (Figure 2)

This is because this gives an impartial point of view according to the special theory of relativity.

The author will try to particularly highlight this 'impartial perspective' as the 'target model' in the discussions that follow.

■ The difference between the special theory of relativity and the general theory of relativity.

There is one more important aspect that needs to be highlighted.

And the aspect involves discussing the two factors (Factor 1 and Factor 2) involved in the time delays completely separately.

Factor 1 is the special theory of relativity based on the Lorentz transformation, which is based on 'the principle of invariant light speed'.

Factor 2 is based on the general theory of relativity. The general theory of relativity deals with the time delays of satellites and spaceships orbiting in the strong gravitational pull of the Earth itself, similar to the gravitational pull of surrounding stars. This will be introduced in the next chapter.

In this first chapter, I would like to start by discussing only special relativity and the Lorentz transformations that constitute it, using a model that avoids the influence of general relativity as much as

possible.

We will start with a symmetrical model that is valid within the scope of special relativity, based on the Lorentz transformation, that is based on 'the principle of invariant light speed'.

On a side note, it is already an observed fact that cosmic ray particles, such as muons descending to the Earth at near-light speed, have a longer lifetime than particles observed from the Earth.

This would certainly be evidence of a time delay on the part of the particles as seen from Earth. There does seem to be an Urashima effect, but it is not clear since it involves an extremely asymmetrical model, due to the Earth having strong gravity, and this relationship is a mutual relationship between the Earth and the particles.

Therefore, we would like to consider a symmetrical model in which the complicating factors are eliminated as far as possible, based on this observational fact in the asymmetrical model.

In order to consider the relationship between two different coordinate systems, I would like to set up a thought experiment under simplified conditions by

introducing a symmetrical model, since, as previously mentioned, the Earth and the spaceship are asymmetrical.

For the sake of simplicity, let us conduct the thought experiment in a setting where the effects of gravity and spatial distortions, as dealt with in general relativity, are virtually negligible.

From now on, this is what I will mean when I use the terms "symmetrical model" and "asymmetrical model".

■ **A thought experiment with a simplified symmetrical model.**

First we need to establish two symmetrical coordinate systems, moving at the same speed in opposite directions, and two spaceships moving in opposite directions through them.

In this way, we can compare the two on an equal footing, as it results in a symmetrical relationship between a spaceship and another spaceship, rather

than an asymmetrical relationship between the Earth and a spaceship.

Therefore, the two spaceships departing from Earth A, namely spaceship B, and spaceship C, depart from Earth A within its strong gravitational field and return to Earth from opposite directions, in the following order:- acceleration, near-light speed, deceleration, turn, acceleration, near-light speed, deceleration.

The model is set up so that the coordinate systems of each spaceship are coordinate system B and coordinate system C.

The time delay $[\Delta t]$ is large at near-light speed, and if this period is sufficiently long, the time delay due to special relativity becomes dominant. We can then assume that the effects of general relativity due to acceleration and gravity have been canceled out and eliminated as far as possible by the symmetrical model. (Figure 3)

If spaceship B and spaceship C could observe each other, their respective coordinate systems,

[coordinate system B] and [coordinate system C], would be visually and physically symmetrical, and thus making this thought experiment very simple.

The introduction the concept of 'symmetry' here, I believe is ultimately consistent with Dirac's concept of 'symmetry' in modern physics.

■ Both spaceships are subject to a time delay $[\Delta t]$.

For the moment, I would like to forget about Earth A and proceed with the discussion in relation to spaceship B and C.

Spaceship C as seen from spaceship B will have a time delay $[\Delta t]$, and spaceship B as seen from spaceship C will have a time delay $[\Delta t]$ as well.

Because of the symmetry of the spaceships B and C, each is equal to the other, and spaceship C as seen from spaceship B will have a time delay $[\Delta t]$, and spaceship B as seen from spaceship C will have a time delay $[\Delta t]$ as well.

If we consider this object model, whether we look at spaceship C from spaceship B or spaceship B

from spaceship C, there will always be the same time delay $[\Delta t]$ for the other spaceship.

In other words, there is always a delay of $[\Delta t]$ between the two sides relative to the other side.

This certainly appears to be a paradox.

Even more troubling, if we take the Earth perspective (A) here and check the clocks of the returning spaceships B and C from someone who was in Earth coordinate system A, they are both the same $[\Delta t]$ delayed behind time on Earth, and there is no $[\Delta t]$ difference between both B and C, indicating the same time. (Figure 4)

It looks complicated when written out in this way, so let us look at how it is organised.

In general, if we write the time delay of coordinate system F when looking at coordinate system E from coordinate system D as $[D \rightarrow E] F$, the above can be expressed as follows.

$$[B \rightarrow C] C = [\Delta t]$$

$$[C \rightarrow B] B = [\Delta t]$$

$$\therefore [B \rightarrow C] C = [C \rightarrow B] B$$

$$[A \rightarrow B] B = (\Delta t')$$

$$[A \rightarrow C] C = (\Delta t')$$

$$\therefore [A \rightarrow B] B = [A \rightarrow C] C$$

Here, I have to make a confession, in fact, we have set up this symmetrical model and gone through all this explanation thus far, just so that we can express this. (Figure 5)

This actually also contains an implication of the twin paradox, but let us not leave the resolution of this as merely a paradox. No, let's take it head-on. So, what happens when spaceships B and C return to Earth and compare $[\Sigma\Delta t]$, i.e., when they compare their clocks?

The answer is still unknown to me. Because of the symmetry of the coordinate systems, I would like to think that the clocks point to the same time.

However, as the author believes, "To state a fact as

true, nothing can be stated until an experiment is actually conducted".

In the first place, this is a thought experiment, so the time delay on each opposing side remains just a notion. We might as well change the Lorentz transformation formula so that the time delay $[\Delta t]$ becomes "0" when we return to the starting point, regardless of the speed lapse on the way.

As a matter of fact, it would be impossible for one spaceship to observe the other spaceship if they were travelling at near-light speed.

So is this just an imaginary event.

We also don't want to compare results only to find that of the ten clocks onboard each spaceship, only five were late, while the others were not.

This is a symmetrical model with special relativity in mind, and we will talk about the mechanism of occurrence, which is different from that of the time delay $[\Delta t]$ due to general relativity, in the next chapter. In fact, the above (Δt) is also related to the

effect of general relativity, but I will not discuss that here yet.

Thereafter, $[\Delta t]$ will be denoted as the time delay in special relativity and **$[\Delta t]$** as the time delay in general relativity, distinguished by **bold brackets** .

It seems that something very troubling is going on here. I'm getting a sense of frustration, but let us leave the questions at that and move ahead.

Let us return to $[\Delta t]$ in the case of special relativity and examine it further.

People in both spaceships B and C should be able to judge that everything as seen from their point of view always generates a time delay $[\Delta t]$ on the other spaceship.

How can there be a delay in both? This is the 'twin paradox'. Please read on and consider its implications.

If spaceship C is observed to have a 'time delay' of $[\Delta t]$ from the point of view of spaceship B, our everyday common sense would naturally assume that spaceship B has a 'time advance' of $[\Delta t]$ from

the point of view of spaceship C. Of course, there is the time difference $[\Sigma\Delta t]$ for the whole journey. Since this is a symmetrical model, we would have to assume then that a delay occurred in both directions, which would be completely inconsistent.

So the author wonders "This occurrence has happened because, somehow, the crafts have wandered into a parallel world or (using the preferred term in this book) a Many-Worlds Universe."

In fact, this is where my proposed theory of 'Many-Worlds Universe Genesis theory' begins.

■ What are the implications of the symmetry model?

From symmetry, we must assume that what happens to spaceship B also happens to spaceship C. In this sense, both of them are claiming that the other is late.

In fact, that is what the word "symmetry" in the symmetrical model originally means.

Even if we comprehend that with symmetry, the accumulation of $[\Delta t]$ time delays $[\Sigma \Delta t]$ occurs on both sides, this does not satisfy common sense.

Common sense dictates that if one side is lagging, the other side is advancing, but from a symmetry point of view, spaceships B and C are both observed to be lagging $[\Delta t]$ as seen from each side.

There is such a big difference between conclusions based on symmetry and common sense.

Naturally, the conclusion drawn from symmetry is the logical one here.

So we have to accept this fact and bridge the gap with common sense.

■ Then which one is the one that is late?

In the symmetrical model, it appears that there is always a time delay, $[\Sigma \Delta t]$, on each of the sides,

which can be metaphorically rephrased as follows.

In our world, it is common sense to think that the other person is late because he or she is late for a meeting, but in the case of the Many-Worlds Universe, for some reason, when the other person looks at us, he or she sees that we are late as well. In that world, such things are indeed commonplace.

Isn't this 'symmetry', a new type of symmetry that emerges when we develop our thinking from a four-dimensional world to a five-dimensional world? I would like to question Dirac on this point.

On the contrary, they both have proof that the other was late. Neither of them is lying.

If so, where did the person who was late go?

A situation has arisen that our common sense will not allow us to accept.

This is where things start to get interesting, so please continue reading.

□ Chapter 2

Introduction to the Many-Worlds Universe

■ Introduction to the 'Many-Worlds Universe Genesis theory'.

In order to resolve this paradox of both sides being late, this author would like to introduce and examine a new concept; the 'Many-Worlds Universe Genesis theory'.

○ At that moment in time, something that I had not distinguished before "the world that I was observing and the world that I was being observed in, became split into two".

○ And at the same time, in the same way, on the opposite side, "there was a separation between the two worlds; of the world in which that side was observing and the world in which that side was

being observed".

In other words, from the side of the observer, it is always the other person who is late, not you who is experiencing the delay.

At the same time, it is a world in which the person being observed always assumes that he is the one who is late, not the other person.

Therefore, we introduce the 'Many-Worlds Universe Genesis theory' and consider the combination of four worlds, each of which is separated into two.

■ **Classification of observers and observed.**

The above combinations can be arranged as follows.

At that time,

Many-World (B1) / The world that is observing from [coordinate system B].

Many-World (B2) /The world that is being observed by [coordinate system B].

In addition,

Many-World (C3) / The world that is observing
[coordinate system C].

Many-World (C4) / The world that is being
observed by [coordinate system C].

✂ This distinction and classification of the observer
and the observed will be made throughout the rest
of the chapter and should be kept in mind.

Originally, there were only the world (B0) and the
world (C0), but as a result of the space trip, the
world was separated into these four worlds, which
means that a new multi-parallel world or
Many-Worlds Universe has occurred. However, it is
not contradictory to say that the twosome of the
observer and the observed in the same coordinate
system must have existed before, but we just did not
notice them.

Henceforth, the observer and the observed will be
distinguished by this type of underlining.

And this may confuse the reader, but please note

that $[\Delta t]$ does not occur in the above relationship, but only in the relationship when one is observing the other side and one is being observed by the other side. It does not occur in relation to the one who observes himself and the one who is observed. However, this is true in the case of the occurrence of $[\Delta t]$ according to the special theory of relativity, but it is also not always true.

Thus, in this way, the so-called "twin paradox" is no longer a paradox, since it can be seen as physics-consistent and comprehended in a non-contradictory way.

How to perceive these many worlds, however, is indeed a new and separate question.

Yet, it is only in the context of a 'Many-Worlds Universe Genesis theory' that special relativity makes any sense at all.

That is to say, "Between the observer and the observed, there is a time delay of $[\Delta t]$, and the observed does not age, but between the observer

and the_observed, there is neither delay nor advance, and both equally age in the same way.

We can only interpret it as "these two different events occur simultaneously". In other words, this interpretation can stand because it is a Many-Worlds Universe.

This is, of course, true from the symmetry model described above, provided that the symmetry is within the range of special relativity.

And, of course, we can expect that even if symmetry is broken a little, the same conclusion will be reached if special relativity is the dominant condition.

■ A new unclarified issue

You may have some hesitation in immediately accepting this theory of the 'Many-Worlds Universe Genesis theory', but progress usually begins with confusion and is sublimated as we move forwards to the next phase of understanding. Please read this

part of the logic several times to comprehend it.

Even though the paradox has been resolved, a number of new questions may have arisen, but they will be resolved as we proceed.

And there are still questions that I cannot yet solve, and may not be able to solve, so we will have to wait and see what the future holds for this hypothesis.

Since the fundamental problems of the universe are philosophical, it would suffice if this 'Many-Worlds Universe Genesis theory' merely holds your intellectual interest.

From the foundation established in Chapter 1, I will gradually develop and build up the 'Many-Worlds Universe Genesis theory' in this second chapter onwards.

Did you ever wonder this question as a child?

"It is clear that you live and exist in my world, but is

it also certain that this me lives and exists in yours?"

I remembered that I used to ask myself these questions repeatedly and considered them to be quite a problem.

Now, at last, I can give an answer to the main question.

In this chapter, we will try to find a solution to this problem.

■ **Settling the twin paradox.**

In order to deal with the twin paradox in a simplified way, we have introduced a symmetrical model with two spaceships, both equal to one another, instead of an asymmetrical model with an Earth and a spaceship.

So with this symmetrical model, let us return to the story of the spaceships.

What exactly is going on here? We could posit that the world was originally a Many-Worlds Universe,

because the speed of the coordinate systems happened to be different, and that was observed as a time delay from other coordinate systems.

Of course, you don't have to travel in a spaceship to experience these parallel worlds, because a Many-Worlds Universe has always existed, it's just that sometimes there is a clear time difference $[\Delta t]$ between the worlds, and that allows you to become aware of this fact.

Even when there is a time delay $[\Delta t]$ between the worlds, it is usually unrecognisable because it is very minute.

At this stage, I have not yet clarified how the existence of $[\Delta t]$ relates to the Many-Worlds Universe.

We have already shown that, across each other's coordinate systems, the observing side and the observed side exist separately, as pairs. There are twelve such combinations, just considering coordinate systems B and C. If we further introduce

the coordinate system A of the earth, the number continues to increase.

The Many-Worlds Universe actually exists.

The real world as we know it is a four-dimensional world of time and space, and I believe that it is one four-dimensional world among many four-dimensional worlds cut out from the Many-Worlds Universe.

■Raising the question. What is the independent variable?

Time is a word that generally indicates an interval on a time axis. If time indicates the current point in the coordinate system, then the time axis is specific to the coordinate system, and if the coordinate system is crossed, the time axis changes to a different one, and both time intervals and the points of time lose their meaning and cannot be compared with each other.

In the cut-out four-dimensional world, we can say that (t) is not an independent variable, because the

time axis (t) varies with the speed (v) near the limit.

But in other words, in the world we live in, (v) is so small that it can almost be regarded as an independent variable, but when the value of (v) is large, for example near the 'boundary of the four-dimensional world', the fact that it is not an independent variable, but a dependent variable that is dependent on (v) , becomes clear. But this is not that simple, since (v) is originally a function of (t) .

If we treat this universe that we live in as a definite four-dimensional world, the independence of (t) will surely collapse near the "boundary of the four-dimensional world" and contradictions will arise.

But if we do not take (t) to be an independent variable, it becomes difficult to talk about dimensions in detail.

Therefore, without clarifying whether the four-dimensional world is really a four-dimensional world with four independent coordinate axes or not, let us proceed with the discussion as a

four-dimensional world first, though we may have to correct this later.

Since our thoughts are inevitably bound to time (t), which we believe to be absolute, let us break free of this spell and go on with the idea that time (t) is not an absolute measure in the course of the 'unfolding' of the universe, but only a measure attached to this four-dimensional world in that we find ourselves.

Here, the concept of 'unfolding' is one that transcends time and space, while 'evolution' is a development along a time axis, that is distinguished from the traditional meaning and used differently.

Then, the occurrence of $[\Delta t]$ in the special theory of relativity may be regarded as the separation of a part of the four-dimensional world from a further four-dimensional world cut out from the Many-Worlds universe. Or it may mean that the re-separation of a four-dimensional world from another four-dimensional world was observed by the detection of $[\Delta t]$ at that time.

In other words, when the time delay $[\Delta t]$ occurs, it means that the four-dimensional world that we regard as the real world, which was newly separated from the previously cut out four-dimensional world, is now further divided into several more parts.

Or, it is certainly reasonable to think that each subspace of the Many-Worlds universe is cut out as a four-dimensional space and assembles a four-dimensional world, instead of being "further divided...". A subspace may even be a single particle.

If (t) were an independent variable, it would never be possible for $[\Delta t]$ to change with velocity (v) . So, let's understand that $[\Delta t]$ is just an index between coordinate systems, it is not an indication of the time difference, nor does it indicate the past, nor does it mean that the past and the present live together in this four-dimensional world. Of course, this is when dealing with the case of special relativity.

Needless to say, this real world, cut out from the

Many-Worlds Universe, is a four-dimensional world with $p = 4$, where p is the number of dimensions.

And, as we shall see, the Many-Worlds Universe on the other hand can be explained consistently with $p = 6$.

In reality, however, it is quite possible that $p > 6$. If a new contradiction arises that cannot be explained by $p = 6$, we can increase p .

In this book, the Many-Worlds Universe is treated as a six-dimensional world with $p = 6$, and the bottom part of the Many-Worlds Universe at the dimensional boundary with the four-dimensional world (the dimensional boundary region / explained later) is discussed as the five-dimensional world or $p = 5$, and then the real four-dimensional world with $p = 4$.

■ One section of the Many-Worlds Universe is four-dimensional

Our common sense understanding is as follows.

In the four-dimensional world we live in, time is one dimension and one axis, the direction of travel is

either past or future, and there is only one point in time, the present. In other words, the present is a single present that exists only momentarily. The past is a world that has already passed and does not exist, and the future is a world that is yet to come and does not exist.

It is already clear that this world of reality is a four-dimensional world, that consists of one time axis and three spatial axes.

Next, the six-dimensional world, which represents the Many-Worlds Universe, means, from the perspective of the four-dimensional world, that two more axes are added to the four axes of the fourth dimension.

This six-dimensional world can be explained as follows.

Based on the fourth dimension, we can imagine a six-dimensional world with one more time axis and one more space axis added to the fourth dimension as we know it, but my theory is somewhat different from that.

The term "addition" here is just a name based on our four-dimensional world. In terms of the order of the creation of the universe, it should be called the deleted axis.

If we start from the four-dimensional world, we end up looking at things in this way, but if we start from the original six-dimensional world, another new theory emerges. (Figure 9)

The six-dimensional space of the Many-Worlds Universe and the theory of its emergence is a world with two time axes and four spatial axes.

The six-dimensional world has two time axes and four space axes, so we call them additional time axes and additional space axes respectively.

The time (axis) and space (axis) of the four-dimensional world so far are sometimes called conventional time (axis) and conventional space (axis) respectively. Similarly, the two time axes of the six-dimensional coordinate axes are integrated and called integrated time and integrated space axes.

In preparation for our next discussion, we will

define the arrow of time as the direction and magnitude of time in the time plane as the locus of time that determines the four-dimensional world.

The fact that there are two time axes means that time is creating a two-dimensional plane. In this two-dimensional time plane, the four-dimensional space moves along the trajectory of a two-dimensional curve. When the trajectory of this movement is cut into the four-dimensional world as we know it, it creates a "time axis" that progresses in only one direction.

To make it easier to understand, let's consider the five-dimensional world first and then move on to the six-dimensional world.

Let us start with the five-dimensional world, assuming that there are two time axes and that the spatial axes remain the same as in our world, i.e. three. Of course, the five-dimensional world could also be a case where only the spatial axis is four-dimensional, but we shall not consider that here, because we think it is possible to draw an analogy from the former case. (Figure 10)

Here in the six-dimensional world, there are several 'arrows of time' in the time plane created by the two time axes. The 'arrows of time' are the directions and magnitudes of the lines or curves on this two-dimensional plane, moving along the two-dimensional plane. There is no contradiction in having more than one 'arrow of time' here.

Next, in order to advance our thinking to the sixth dimension, we can add one more spatial axis here, which would create a four-dimensional integrated space with one more spatial axis. At that time, there will be several 'arrows of time', that can intersect each other and change freely.

This four-dimensional world is a momentary section cut out of the integrated time and space of the six-dimensional world.

Let me explain it again, but in a different order.

In the six-dimensional world, three-dimensional space as we know it continuously assembles to form four-dimensional spaces.

And even though they seem to transcend time, they do not unfold on their own, but exist in a way that is closely related to the present, the past and the future,

and in a way that makes sense of cause and effect... Already at this moment, the past, the present, and the future are intersecting each other in every direction. And furthermore, the past, present, and future are not points on a time axis, but planes, and exist in multiple, continuous forms.

In other words, what is 'past' from the point of view of a certain 'present' is 'present' from the point of view of a certain 'future' and is in no way independent.

Because the past, present and future are continuous in the six-dimensional world, our concept of 'present' is considerably diminished. It will depend on which coordinate point in the six-dimensional world we observe it from.

The future does exist, but it is not the future that we will experience. It is similar but not exactly the same thing. It is an extension of the future, combined in a line or in a plane.

In the same way, the past does exist, but it is not the same past that we have experienced. It is similar but not exactly the same thing. It is an extension of the past, joined on a line or on a plane.

The four-dimensional world is a world in which the two variables that make up this six-dimensional world, the additional time axis and the additional spatial axis, are fixed as zero or constant. This fixation of the variables is the meaning of "cut out". In other words, the world cut out from the six-dimensional world means the four-dimensional world we live in.

If we observe a cut-out four-dimensional world in the six-dimensional world, we can see that the axis of past, present and future is no longer independent, but is limited to one direction.

What does the movement of the "present" points through the six-dimensional world mean? We will discuss this in more detail later, with more vocabulary.

So, since the number of independent variables determines the dimensions of the world, and the discussion is still incomplete, let's assume that the fifth and sixth dimensions here are hypothetical settings, and it is quite possible that the number of dimensions is greater than that.

Incidentally, one of the great achievements of modern physics is that, after a long period of uncertainty about the origin of gravity in subatomic particles which, according to the Standard Model of modern physics, are considered to be "weightless", it has finally been "confirmed by experiment that the Higgs boson, consisting of several quarks, is responsible for gravity".

But I cannot easily comprehend this. I am in neither the position nor in possession of the ability to understand it enough to question this great discovery.

So I'd like to put that aside for the moment as a great achievement of modern physics and offer another theory that I am comfortable with. Which of course is permissible within our field.

According to my theory, the reason why the medium of gravity has not been discovered, and the reason why the medium of light has not been detected, is that it is transmitted by the mediums of the fifth and sixth dimensional worlds. If we continue to focus on

the fourth dimension as we do now, we will not be able to see this.

That is why I hypothetically propose a six-dimensional world so as to allow the existence of gravity and light media in the Many-Worlds Universe. In this way, the much-discussed contradictions in modern physics, such as 'quantum entanglement' and the 'double-slit experiment' (see later), can be successfully explained.

From now on, when we describe the six-dimensional world, we will understand that it includes the five-dimensional world as a dimensional boundary region between the four-dimensional world and the six-dimensional world.

So far we have shown the structure of the universe as a Many-Worlds Universe and four-dimensional worlds carved out of it, but let us now go a little deeper.

■ Separation of original phenomena from phenomena.

There are several four-dimensional worlds that are cut off from the Many-Worlds Universe. Therefore, the time that shows the progress of phenomena in one four-dimensional world, i.e. the index (t) , is different from the index of time that shows the progress of phenomena in other four-dimensional worlds, but it can be thought of as the "mutually observed $[\Delta t]$ from the way in which they have divided".

And if we call the 'phenomenon' that existed in the preliminary stage of the Many-Worlds Universe before it was cut out, 'original phenomenon', then the universe has the existence of the fundamental universe first, the Many-Worlds Universe under that, and the 'original phenomenon' occur as the activity in the Many-Worlds Universe, and the 'phenomenon' exists as the activity in the four-dimensional world that was cut out from it. The "original phenomenon" is the "origin" of the "phenomenon" of the four-dimensional world in the Many-Worlds Universe, thus we are referring to it as the 'original phenomenon'. On the other hand, the "original phenomena" are the "continuous multiple

phenomena" of the Many-Worlds Universe of five dimensions or more, and the "phenomena" that we understand are those that we cut out into single pieces and make the four-dimensional world.

(Figure 3)

Now, later in this book, I will explain the fundamental universe, and as the fundamental universe, I will define [Original-Order Wave Universe] anew.

The etymology of the term [Original-Order Wave Universe] is derived from the etymology of quantum mechanics. In quantum mechanics, a wave expressed by a wave equation is a wave as it is, but it is observed as a quantum by an observer.

Here, quantum and wave are always two sides of the same coin, and without being biased towards the term quantum alone, quantum mechanics should be called quantum wave mechanics.

In accordance with the origin of quantum mechanics, the higher-order wave space at the origin of the universe is designated the [Original-Order Wave Universe], and the observation of the [Original-Order Wave Universe]

produces higher-order particles, that are hereby designated [Hyperquantum]. (In my previous lectures and materials, I referred to the [Original-Order Wave Universe] as the 'wavefunctional universe').

As I shall explain later, the [Original-Order Wave Universe] as the fundamental universe created the Many-World Universe. And the four-dimensional world was created by cutting it out from the Many-World Universe. There, we consider that the 'phenomenon' of the four-dimensional world was born by cutting out a piece from the 'original phenomenon' of the Many-Worlds Universe.

I would like to complete the cosmological model by connecting it to the concept of the [Original-Order Wave Universe] as the fundamental universe, which I will discuss again later. It starts with the [Original-Order Wave Universe] as the fundamental universe, from which the Many-World Universe originates, then the 'original phenomenon', and then the 'phenomenon' in that order. Please note these terms and vocabulary.

There are two kinds of Many-Worlds Universes: the Many-Worlds Universe born from the [Original-Order Wave Universe], and the Many-Worlds Universes reproduced in the cut-out four-dimensional world, which means that there are two kinds of processes in the creation of the Many-Worlds Universes

However, there is no essential difference between them, so there is no need to make any special distinction. (Figure 7)

With this much preparation of the concept, we proceed. As for the [Original-Order Wave Universe], I will describe it later, so I will say that for the time being it is not yet complete as a cosmological model.

This matter will be touched upon one last time after other preparations have been made.

I will try to describe the concept of time further as a 'Many-Worlds Universe Genesis theory'.

○ **Special relativity and the "limits of the four-dimensional world".**

■ **What is the other time delay $[\Delta t]$?**

In addition to the special theory of relativity, time deviations, $[\Delta t]$, also occur due to the distortion of space caused by gravity, as treated in the general theory of relativity.

In effect, time moves slower near a black hole because the gravitational distortion of space is greater.

However, $[\Delta t]$ according to general relativity is not caused by velocity, as $[\Delta t]$ is in the case of special relativity, but rather it always occurs on the side where the distortion of space is greater due to gravity.

In the special theory of relativity discussed earlier, it was assumed that the time delay $[\Delta t]$ caused by

the relative velocity occurred in both coordinate systems B and C in the same way, because both systems were equal.

However, in the case of gravity, according to the general theory of relativity, it occurs and acts independently on coordinate systems B and C.

Therefore, we believe that both systems are not equal and that each system has its own time delay $[\Delta t]$.

Therefore, unlike $[\Delta t]$ in special relativity,

$[\Delta t]$ in general relativity is not relative to a coordinate system, but depends on which coordinate system you look at, and which coordinate system you look from, so the 'twin paradox' does not occur.

■ The example of satellites.

According to the general theory of relativity, a clock on the Earth, that has a larger gravitational distortion of space, will always be delayed by $[\Delta t]$ than a clock on a satellite.

However, in the case of a satellite, although it cannot be said to be traveling at near-light speed, it is orbiting the earth at a considerable speed, so the effects of the special theory of relativity will appear and $[\Delta t]$ will also occur to some extent, so that the total time delay will be the total effect of $[\Delta t]$ and $[\Delta t]$. (Figure 6)

In actual GPS positioning satellites, there is a time delay of $[\Delta t]$ due to the effect of special relativity on the satellite side when viewed from the earth.

And furthermore, on the Earth side, there is the time delay effect $[\Delta t]$ due to general relativity.

The result of the subtraction of the advance and the delay is that the earth is 8.6 microseconds per day behind the satellite, according to actual measurements.

As a satellite's orbit becomes higher, its speed becomes slower due to the forces of inertia, and its gravity becomes less, resulting in a difference

between the effects of general relativity and those of special relativity.

Therefore, there is an orbit height where the general relativity is dominant on the ground, but as the altitude increases, the effect of the general relativity decreases and the effect of the special relativity becomes dominant, and $[\Delta t]$ and $[\Delta t]$ cancel each other out to make plus or minus zero. There is an orbit height in which the difference created by $[\Delta t]$ and $[\Delta t]$ are plus or minus zero. It is suggested that this orbit has a theoretical altitude of 3200 km.

In the case of special relativity, because of the relative quantity of velocity, from the observer's perspective, there is always a time delay $[\Delta t]$ on the other side, and from the side being observed, and the other side is always perceived as being slower.

On the other hand, in the case of general relativity, due to the absolute invariance of gravity and acceleration, the larger side of the spatial distortion is always delayed by $[\Delta t]$, regardless of whether it is observed or not.

In this case, there is no difference in time delay between the observer and the observed, so if the Earth has a delay, the spaceship will be ahead. Which is quite a sensible premise. This implies that time delay due to general relativity is not a factor in the re-production of the Many-Worlds Universe.

Now, one can conclude that the time delay $[\Delta t]$ in special relativity occurs when we observe the world through "four-dimensional eyeglasses" that state that the speed of an object moving in a specified coordinate system cannot exceed the speed of light. The four-dimensional world is the one we live in, with three dimensions of space + one dimension of time.

As I will explain in the next chapter, the Many-Worlds Universe is beyond four dimensions, but we are forced to project it onto the four-dimensional world and see it through 4D glasses That is why I described it as "a part of the Many-Worlds Universe being cut out". Later on, the "cutting from the Many-Worlds Universe" will

sometimes be expressed as "converting a part of the Many-Worlds Universe into four dimensions and showing it on a 4D display".

When we look at this cut-out four-dimensional world through 4D glasses, the universe is distorted and many worlds are re-produced and appear to overlap.

In other words, the fragments of the re-produced Many-Worlds Universe appear distorted.

Let us use a metaphor. Well, in fact it is not really a metaphor, but a fact.

The four-dimensional world we live in is often transformed into two dimensions through a display, that our cerebrum sees in a pseudo-three-dimensional way. This is the 3D to 2D transformation that we are all familiar with.

So it should not be so mysterious to transform the six-dimensional Many-Worlds Universe into a four-dimensional world and observe it.

If we could see the six-dimensional Many-Worlds Universe in its higher dimensions without looking through 4D glasses, we would be able to observe the

whole of the Many-Worlds Universe. However, at the moment we can only see the images on a 4D display with 4D glasses.

I would like the reader to always be aware of the number of dimensions, so please remember that we have stated that, including the fifth dimension, which is the boundary between the four-dimensional world, the Many-Worlds Universe is six-dimensional.

By selecting and cutting out one world from 'the Many-Worlds Universe at the boundary of the fifth dimension', the world of 'phenomena' in the fourth dimension that we experience is created.

A five-dimensional boundary environment is considered to be an incomplete six-dimensional world in which one of the additional time and space axes is inferior to the other, i.e. it is not a complete six-dimensional world.

And when neither of the two additional axes is inferior, the proper "carving out" of a four-dimensional world has taken place.

■The Many-Worlds Universe arises from the [Original-Order Wave Universe]

The origin of the name 'Many-Worlds Universe Genesis theory' is the fact that the Many-Worlds Universe was created from the [Original-Order Wave Universe], and that life began there.

In addition, the four-dimensional world in which we are active is cut out from the Many-Worlds Universe making it a secondary Many-Worlds Universe.

In this book, the Many-Worlds Universe is described as p-dimensional and the [Original-Order Wave Universe] as n-dimensional, distinguishing between p and n. As an analogy from quantum mechanics, the n-dimensional wave equation when dealing with the n-dimensional [Original-Order Wave Universe] is expressed as Ψ_n .

The maximum value n is assumed to be undetermined at this stage. However, only

when $n = 4$, Ψ_n becomes Ψ_4 , which corresponds to the Schrödinger's wave equation in the four-dimensional world we know. However, since we take the position of Ψ_6 in this discourse, Ψ_4 is an approximate solution in the four-dimensional world using Ψ_6 in this case.

Later, we will discuss $p = 6$ in accordance with the number of dimensions p of the Many-Worlds Universe, but as a general solution, we assume the case that $p > 6$, so we will proceed with the discourse as though it is undetermined.

So, to generalize, we think that [the n -dimensional wave equation] Ψ_n exists initially, and it creates the p -dimensional Many-Worlds Universe. The dimension n of the [Original-Order Wave Universe] is the maximum at $n = 11$, and the dimension p of the Many-Worlds Universe is $p = n$ or $p < n$.

No one has ever seen a fundamental universe

existing as a wave equation, moreover.

When the [Original-Order Wave Universe] becomes an original phenomenon in the Many-Worlds Universe, it always occurs fractally. When some conditions are met, as if a whirlpool were an ocean current in the [Original-Order Wave Universe], a Many-Worlds Universe is created. There are many of them at the same time and they are related to each other. This is known as fractal resonance.

Fractal resonance is a word that will appear often in the future, so keep an eye out for it.

So, each universe in the Many-Worlds Universe is somewhat similar, and yet, if you look closely, each one is slightly different.

Many such universes are fractally generated.

The [Original-Order Wave Universe] that gives rise to this Many-World Universe is probably the most fundamental form of the 'unfolding' or 'operation' of the wave-functional universe, and as such, the universe itself.

It appears to me that there is a Many-World Universe born out of the [Original-Order Wave Universe] and that there are many overlapping reproduced worlds, in one of which I exist and the other worlds appear distorted.

In other words, according to our 4D glasses, as the world outside yourself approaches near-light speed, the distortion of the viewed world increases and the world appears to be plural.

And, of course, because of the distorted occurrence of multiple worlds, a 'twin paradox' will be created.

This is because we put on the 4D glasses by ourselves, but the existence of the fundamental universe remains the same, so the world through the 4D glasses is most probably a temporary projection and not a fact.

Maybe these 4D glasses are a way for humans to "make sense of the universe". Either way, it seems to be the true nature of this world.

Since the mechanism of occurrence of $[\Delta t]$ is different from that of $[\Delta t]$ as described previously, it is better to understand this as an attribute of the Many-Worlds Universe and not to treat $[\Delta t]$ and $[\Delta t]$ as a single entity.

This discussion has raised some new questions, which, as is usual in academia, remain subjects of future experiments and research.

Incidentally, although the time delay $[\Delta t]$ seems to separate the many worlds individually, $[\Delta t]$ is not a condition for a Many-Worlds Universe, because (t) is not an independent variable.

Whether we can recognize the separation or not, and whether there is a time difference $[\Delta t]$ or not, we should think that the many worlds exist regardless of the time axis (t) .

□ Chapter 3

Inconsistencies between quantum mechanics and general relativity.

In this chapter, as discussed in the previous chapters, according to the special theory of relativity, the time axis (t) cannot be treated as an independent variable at the 'boundary of the four-dimensional world', and the same is true for the general theory of relativity. In addition to these facts, I will develop the 'Many-Worlds Universe Genesis theory' by relating it to quantum mechanics, with reference to 'quantum entanglement' and the 'double-slit experiment'.

■ The [Original-Order Wave Universe] creates a Many-Worlds Universe.

If we trace back from our own four-dimensional world, there is a stage of phenomena, prior to which is a multi-world universe, which is the world of

original phenomena, prior to which is the [Original-Order Wave Universe] that consists of many variables, undetermined constants, many parameters that determine the initial conditions, and important variables that determine the number of dimensions.

Here, in the [Original-Order Wave Universe] , we define 'pre-phenomenon' as the 'source' of the 'original phenomenon'.

The [Original-Order Wave Universe] is an extremely logical entity. If we were to express it mathematically, it would be in the form of a higher-order wave equation, but even so, there is a crucial missing 'term' that we will discuss in the last chapter.

The [Original-Order Wave Universe] is represented by a wave equation of higher-order. The number of dimensions, the various variables and constants, and the various parameters are named the "group of quantized variables".

By determining some of the variables in the 'group of quantized variables', we generate the various multi-world universes, their dimensionality and the various states of the world. (Figure 13B)

$$\Sigma_n [\psi_4 + \psi_5 \cdot \cdot \cdot \cdot \psi_n]$$

$$\psi_n = \psi_n (u_1, u_2, \cdot \cdot \cdot \cdot u_X)$$

The ψ_n of each hierarchy is established as a high-dimensional wave equation involving a nearly infinite number of 'groups of quantized variables' ($u_1, u_2, \cdot \cdot \cdot \cdot u_X$).

As we gradually determine the 'group of quantized variables', we lose our degrees of freedom and this makes us more specific, the dimensions reduce, the constants are determined, the variables are determined, the initial conditions in the Many-Worlds Universe are determined, and finally

we reach the four-dimensional world.

In the [Original-Order Wave Universe] there are no distances or times or any of the other four dimensions that are fundamental to physics as we know it. And incidentally, the word 'no' here means that those lower-order things have not been determined yet.

The [Original-Order Wave Universe] creates the schematic structure of the universe, from the higher-order 'minimal structure' of the Many-World Universes to the lower-order 'maximal structure'. The [Original-Order Wave Universe] gradually lowers its dimensionality until it incorporates some of the quantum mechanics of the four-dimensional world as we know it.

On the other hand, the [Original-Order Wave Universe] creates a world of 'maximal structure' through the accumulation of 'minimal structure', and determines the 'group of quantized variables' to create the overall structure of the universe. Moreover, the [Original-Order Wave Universe] creates the final structure of the universe by

determining, when necessary, the 'microstructure' of the whole area of the Many-Worlds Universe in a way that modifies the overall structure (see later for an explanation of this meaning).

When decisively cut into a four-dimensional world, for the first time, 'groups of quantized variables' of time, space and other physical quantities are determined. And at other times, the parameters can be changed accordingly.

The determination of the 'groups of quantized variables' in the [Original-Order Wave Universe] means that a Many-Worlds Universe has been generated by the 'minimal structure' and the 'maximal structure'.

A Many-Worlds Universe is created to be fractally coupled to the [Original-Order Wave Universe], and energy is supplied from the [Original-Order Wave Universe] to the Many-Worlds Universe. This structure of fractal coupling between the two is called the fractal structure.

In other words, the [Original-Order Wave Universe] supplies energy to the Many-Worlds Universe through fractal resonance caused by

fractal structures.

In this book, the word "fractal" is used in a broader sense than in the general concept, but we hope that the reader will gain a deeper understanding as you read on.

Here, the resonance of vectors with the universe as a whole, corresponding to their similarity across dimensions, is called fractal resonance, a meaning that will become clearer in due course. On the other hand, the action of a part of the universe, rather than the whole, is called vector resonance, or simply a vector.

By the way, if we look at the [Original-Order Wave Universe] and Many-Worlds Universe from the point of view of the four-dimensional world in which we live, the [Original-Order Wave Universe] is related to the minimal structure, while the Many-Worlds Universe is related to the maximal structure that is dealt with in the theory of relativity.

It can be said that in the creation of the Many-Worlds Universe, the accumulation of

minuscule structures created from the Many-Worlds Universe by the determination of 'group of quantized variables', accumulated and existed as the maximal structure of the Many-Worlds Universe. And it means that we can create or change the Many-Worlds Universe at any time by determining a 'group of quantized variables' for the [Original-Order Wave Universe], and that we can recreate the past or simulate the future.

And although we seem to live in the four-dimensional world, in fact we are now directly involved with the six-dimensional Many-Worlds Universe, that was originally created as a phenomenon, and we are living in the four-dimensional world as a doorway, wearing '4D glasses', based on this deep relationship.

In the [Original-Order Wave Universe] and the Many-Worlds Universe that emerged from it, the various physical quantities of the fourth dimension are still irrelevant because of the high number of dimensions.

These terms hold meaning once they are cut into the

four-dimensional world.

The four subatomic particles we observe (the electron, the neutrino and the two quarks) lie at the borders of the minuscule structure of the cut-out four-dimensional world, and they seem to be the subatomic particles that emerge immediately after the determination of the 'group of quantized variables'.

○ **Quantum mechanics and the 'limits of the four-dimensional world'.**

■ **Implications of the double-slit experiment.**

In our discipline, the theories of special and general relativity, which deal with the world of maximal structures, and quantum mechanics, which deals with minuscule structures, have not yet been correlated with each other. The relationship between them has not yet been discovered.

However, the introduction of 'Many-Worlds

Universe Genesis theory' will be related to both quantum mechanics, which deals with the world of minimal structure, and relativity, which deals with the world of maximal structure, and I have high hopes that it will be possible to bridge the gap between the two, which is not currently possible.

In relation to quantum mechanics, which deals with the world of minuscule structures, the 'double-slit experiment' is a contradiction in terms of physical consistency. Therefore, before reviewing the 'double-slit experiment', let us discuss the world of minuscule structures from the standpoint of the 'Many-Worlds Universe Genesis theory'. (Figure 8)

Although it is admittedly difficult to understand quantum mechanics, if we introduce the 'Many-Worlds Universe Genesis theory', we can explain the quantization of waves, the creation and annihilation of quanta, instantaneous movement, the duality of waves and particles, movement beyond time and space, as well as black holes and the Big Bang, all of which are similar in nature, and we can

discuss them with some consistency in the field of physics using the same theory, whether the action is from the Many-Worlds Universe beyond our four dimensions, or from the dimensional boundary region (a connecting passageway).

However, even if we can explain it all, we cannot prove it unless the final result is consistent with facts derived from experimentation. Until we have the results of experiments, we cannot say anything definitive.

Now, even as I bring up the subject of 'dimensions' again, and say that the boundary with the four-dimensional world at the lower end of the Many-Worlds Universe is at least five-dimensional, and as I proceed to say that the other parts are six-dimensional; I write this with a clear notion that this may be slightly modified in the future.

■The basics of the [Original-Order Wave Universe].

The wave equation treated in the 'Many-Worlds Universe Genesis theory' is n -dimensional ($n > 6$). Schrödinger's wave equation corresponds to $n = 4$, which is four-dimensional, and thereby decisively different.

Why Schrödinger's equation begins with a four-dimensional premise is beyond me. It seems self-limiting in this manner. For example, if we have a wave equation with $n = 6$, and the result can be explained with $n = 4$, we can simply set $n = 4$ only under the conditions of that equation.

There is no point in adhering to $n = 4$ when various subsequent experimental results suggest higher dimensions. For example, superstring theory, which will be discussed more later, proposes eleven dimensions.

The [Original-Order Wave Universe], which will be treated as n -dimensional [$n > 6$] below, has a group of undetermined 'group of quantized variables', and as n -dimensional waves, it oscillates and flows in both large and small ways, and constitutes the universe of n dimensions [$n > 6$]. We have described [$n > 6$], but we need to be

prepared to deal with $n = 11$ at any junction.

So, first of all, the [Original-Order Wave Universe] generated the Many-Worlds Universe. Up to that point, we have determined quite a few 'groups of quantized variables', but we still have 'groups of quantized variables' that are yet to be determined.

The Many-Worlds Universe includes as its boundary the five-dimensional world, which is like a continuum of our four-dimensional world, and we begin our discussion of the whole on the premise of a six-dimensional world.

Moreover, (t) is not an independent variable, it remains subordinate to other variables, and constitutes a universe with no past and no future, and with a greater degree of freedom.

Finally, we have carved out a four-dimensional world from the Many-Worlds Universe and established phenomena in a much more restricted four-dimensional world.

However, even then, the set of 'groups of quantized

variables' is still undecided. Alternatively, they are waiting to be changed.

Because it is undetermined, the world of minuscule structures is cut out as a four-dimensional world with two sides, one side with the nature of a wave, but another side with the nature of a particle.

Both the world of the maximal structure and the world of the minimal structure are cut out from the Many-Worlds Universe and are phenomenalized in the four-dimensional world, but the characteristic feature of the world of the minimal structure is that it continues to behave as a wave until the very end, and appears to lose its wave nature only after phenomenalization.

It is here that the duality of wave and particle arises, finally becoming a particle phenomenon, and the re-creation of a new Many-Worlds Universe takes place.

It is with this basic knowledge that you should read the following.

■ **The Many-Worlds Universe and 'quantum entanglement'.**

In a quantum many-body system, where the spin, momentum and other states of the quantum system are unified, there is a phenomenon called 'quantum entanglement', where two particles can be separated but still act on each other in zero time, so that they resonate exactly simultaneously with each other.

In the [Original-Order Wave Universe], particles always move in the n-dimensional world, and we observe them in the four-dimensional world by wearing our 4D glasses.

This 'quantum entanglement' becomes very difficult to understand only by observation in the four-dimensional world, but if we consider it as a phenomenon of the four-dimensional world cut out from the n-dimensional [Original-Order Wave Universe] and the Many-Worlds Universe, it is not a particularly mysterious phenomenon. (Figure 11)

If we assume that $n = 6$ and $p = 6$, then we can consider that in the six-dimensional the [Original-Order Wave Universe] and the six-dimensional Many-Worlds Universe, particles that were identical were cut out separately as four-dimensional worlds, and then projected onto different four-dimensional locations.

Then the separate particles are naturally in the same motion, in resonance, and because we are looking at the same particle in the six-dimensional world but in the four-dimensional world, it is only natural that they should both be in the same motion in zero time. Sometimes this relationship continues, and sometimes each resonant relationship collapses. When it does, they simply turn into separate and independent particles.

Since the two cut-out particles, which were originally one, are not directly united in the same space, but in the six-dimensional world of the original world, that is, they are united with each other through the six dimensions, it is not particularly surprising that they resonate with each

other in zero time.

However, this is basically an effect of the [Original-Order Wave Universe], and 'quantum entanglement' will not occur in the case of a world with only a maximal structure of the Many-Worlds Universe in which the [Original-Order Wave Universe] is not involved. In other words, it can be inferred that quantum entanglement occurs when we try to determine the minimal structure of a part of the world with a maximal structure.

Then, naturally, if the [Original-Order Wave Universe] is acting strongly, there will be 'quantum entanglement' with other four-dimensional worlds, and since each time axis is unique and independent, 'quantum entanglement' will occur with a time difference when viewed from the four-dimensional world we live in. One is the future and the other is the past, and they occur across time.

Furthermore, if the original particle in the six-dimensional world splits, the resonance relationship between the two particles that occurs in zero time will be broken.

We can expect that if we apply an external force to the 'quantum entangled' particles in the four-dimensional world, the particles in the six-dimensional world will eventually split, move or merge under the influence of the four-dimensional world.

Thus, since the particles were originally bound together in the six-dimensional world, it is only natural that they are in a synchronous and resonant relationship with each other, and that the distance in the four-dimensional world is irrelevant. And depending on how you cut it, not only distance but also time is irrelevant. This may be an important concept to solve for the future of physics.

Trying to solve all phenomena only in the four-dimensional world leads to extremely difficult and incomprehensible phenomena, and further leads to complex theories to explain them. However, if you tackle the issues from the view of the [Original-Order Wave Universe], a great deal can be explained.

■A Many-Worlds Universe interpretation of the double-slit experiment (Young's experiment).

The famous Young's experiment, that was designed to demonstrate the nature of light as waves, was replicated with electrons to show that electrons, like light, can be treated as waves: "A particle with wave-like properties, such as an electron, is narrowed into a beam and set to pass through two parallel slits, each a millimeter in length, in the middle of the path. In this case, interference fringes appear on a screen placed behind the double-slits." This is usually an experiment to show that the particles propagate as waves.

Furthermore, if we try to observe the particle to see which side of the double-slit it has passed through, it loses its wave character at the point of observation, and thereafter behaves as a particle, and no interference fringes are produced. On the screen there will simply be the shadows of the two slits.

In other words, the observation makes a difference to the locations where the electrons become particles. Depending on the observation, the electrons behave differently. This has been treated as a contradiction in physics. Waves were supposed to be made of multiple particles, but in this experiment, the result was the same whether it was multiple particles or a unit particle.

When 'unobserved', the particles, originally classified as minuscule in structure, had a wave-like character and passed through the double-slits as waves, producing a phenomenon of interference that spread out in a striped pattern on the final screen.

However, by adding the 'involvement in the system' of 'observing' the double-slit in the middle of the system, the original wave loses its wave nature, and from that point onwards it acts as a particle nature, creating a shadow (a bright line) of the double-slit on the screen that is not an interference fringe, which is a puzzling problem.

Let me briefly explain this 'double-slit experiment' from the point of view of the 'Many-Worlds Universe Genesis theory'.

If we deduce this 'double-slit experiment' from the 'Many-Worlds Universe Genesis theory', then when we 'do not observe', the electron is in the pre-phenomenal stage of the [Original-Order Wave Universe] and it is treated as a wave. If we 'do not observe', then that part is not yet reflected in the Many-Worlds Universe.

Therefore, it means that it has not been cut out into a four-dimensional world, and the particles of the minuscule structure originally had the nature of waves, passed through the double-slit as waves, reached the four-dimensional world on the final screen, and produced the phenomenon of interference spreading out in a stripe pattern. This is the most obvious explanation and so far, the explanation is quite clear.

However, by adding the 'involvement in the system' of 'observation' to the double-slit during the process, the field was shifted from the pre-phenomenon of the [Original-Order Wave Universe] to the original

reduction of the Many-Worlds Universe, and was cut out as a four-dimensional world.

That is to say, from that moment on, the 'pre-phenomenon' immediately became the 'original phenomenon' and was cut off as a 'phenomenon' almost simultaneously. From the point of observation, the electron loses its wave nature and from then on acts as a particle, resulting not in interference patterns on the screen, but in the shadow of a double-slit (the two bright lines). This result can only be explained by the 'Many-Worlds Universe Genesis theory'.

Now, the electron as a particle does not exist yet in the Many-Worlds Universe, because it is a component classified as a very minimal structure. At the same time as it is a 'pre-phenomenon' in the [Original-Order Wave Universe], a group of higher-order variables is determined and it becomes an 'original phenomenon' in the Many-Worlds Universe and at the same time, it becomes a phenomenon in the four-dimensional world. It is also important to note that they occur simultaneously and cannot be distinguished.

Seen from the 'pre-phenomenon' side, 'pre-phenomenon' in the [Original-Order Wave Universe] determines the 'group of quantized variables', and at the same time the 'original phenomenon' is generated.

The key assumption here is that the world of minimal structure is not arranged in the Many-Worlds Universe, but is directly generated on the spot from the [Original-Order Wave Universe]. In the usual case of judging the result only by looking at the screen, the Many-Worlds Universe proceeds as a 'pre-phenomenal' wave without deciding the final form of the four-dimensional world to be cut out, and when it finally arrives at the screen, the conditions are met, most of the higher variables are decided, and at that point, most of the 'group of quantized variables' are determined, whereupon the wave disappears and becomes a particle, becoming a phenomenon instantly. At this point, the phenomena of the four-dimensional world result in the creation of a section of the Many-Worlds Universe.

In this instance, 'pre-phenomenon' is the stage that is not engaged in the 'group of quantized variables', or in other words, it is the [Original-Order Wave Universe] that has not yet become phenomenon. When the 'groups of quantized variables' become involved in 'pre-phenomenon', a thing then becomes 'original phenomenon', and eventually part of it becomes the 'phenomenon' in the four-dimensional world.

Here in this particular case, when the existence of an observer becomes clear, i.e. the point at which the final 'group of quantized variables' is determined, it is at a point before the screen, namely at the double-slit, and at that point, from out of the many-worlds that are creating wave motions, one out of several groups of quantized variables is determined, and that becomes a phenomenon at the double-slit, and the phenomena for the world is selected and determined.

It is important to note that in the case of 'non-observation', the [Original-Order Wave Universe] does not determine the 'group of

quantized variables', but goes straight through the first slit, and then through the next double-slit as a wave, creating an interference pattern on the screen, and thus forming the final phenomenon on the screen. At this time, the screen became the point where the final phenomenon was formed.

For reference, without the screen mentioned above, the wave would motion forward without becoming a phenomenon.

However, if an 'observer' attaches an instrument in the vicinity of the second slit, it is clear that the behaviour of the electrons at the second slit at the point of observation will be the subject of observation.

The Many-Worlds Universe is a six-dimensional world, that includes a five-dimensional boundary region (a connecting passageway), from which the four-dimensional world is cut out to become a phenomenon.

In other words, since the conditions for the cutting

of the four-dimensional world have been set up by the act of observation, after passing through the first slit, the 'group of quantized variables' is determined and it loses its wave character at the place of destination (the double-slit), and tries, on the following screen, to directly phenomenalise there, thereby not creating interference fringes.

In other words, at the point where the particles pass through the double-slits, they have become original phenomena (and phenomena at the same time), so that the wave motion has disappeared and they are already particles, and from then on they do not make interference fringes on the screen, but make the shadow of the slits (bright lines) as two lines on the screen.

For reference, in an observed case, if the screen is removed, since it has already become a phenomenon, it will continue to act as a particle from that point onwards, and it will only create a shadow of two lines (bright lines) beyond it. In other words, it would not create interference fringes anywhere.

By observing, we make the 'pre-phenomena' prepared in [Original-Order Wave Universe] into 'original phenomenal' through a 'group of quantized variables'. By this we mean that we have created a section of the Many-Worlds Universe.

However, the meaning of this is merely the selection of a doorway into the four-dimensional world, as we have shown in the previous discussion.

And if we do not observe, no choice of world is made, and the 'pre-phenomena' remain as waves and 'progress' as far as they can go.

In that case, the 'group of quantized variables' will 'progress' to the plane of the screen without being determined. In other words, it would create interference fringes.

■ There are two worlds: the world of maximal structures and the world of minimal structures.

The duality of the [Original-Order Wave Universe] and the Many-Worlds Universe is the wave aspect and the particle aspect, which is the duality between the behaviour of quantum mechanics in a world of minimal structure and the behaviour of special and general relativity in a world of maximal structure.

The duality between special relativity, general relativity and quantum mechanics that we are currently dealing with is inherited from the duality between the [Original-Order Wave Universe] and the Many-Worlds Universe in the four-dimensional world.

The [Original-Order Wave Universe] is 'pre-phenomenon', and by engaging in it from the side of observation, we create a quantum mechanical world with a very small structure and a relativity world with a very large structure in the Many-Worlds Universe and in our four-dimensional world, and finally cut out the 'original phenomenon' as a 'phenomenon' in the four-dimensional world. In the end, it means that we extract the 'original phenomenon' into the four-dimensional world as

'phenomenon'.

Since waves are originally the main element of the [Original-Order Wave Universe], we can say that quantum mechanics strongly reflects the nature of the [Original-Order Wave Universe]. This is probably the difference between quantum mechanics and classical physics or relativity.

We have referred to the [Original-Order Wave Universe] as n-dimensional, but it is essentially a higher dimensional object, with $n > 6$. This has a strong influence on the nature of quantum mechanics in the four-dimensional world. On the other hand, the Many-Worlds Universe including five and six dimensions seems to have a strong influence on the theory of relativity.

Thus, objects made up of particles basically behave according to conventional physics and the theory of relativity, while the 'individual' units of particles that do not make up objects conform to classical quantum mechanics, as do the waves themselves.

In modern physics, however, the distinction between 'objects' (maximal structures) and 'multiple particles' (minimal structures) is not yet clearly distinguished. Please read "Schrödinger's cat" (see later) to confirm this point.

"A physical quantity in a system containing a quantum can be in more than one state at the same time." This strange property of quantum is called Quantum Superposition. This property of particles is of particular importance and henceforth will be referred to in parentheses as **【quantum superposition】** .

This property is precisely the state determined by the 'group of quantized variables' in the [Original-Order Wave Universe], which indicates that the wave is in a pre-phenomenal state, just before it becomes a phenomenon. Thus, we can say that the **【quantum superposition】** inherits this property in [Original-Order Wave Universe].

Thus, it is the [Original-Order Wave Universe] and the Many-Worlds Universe that bridge the gap

between relativity and quantum mechanics.

When we attempt to observe the point at which the phenomenon is determined, the 【quantum superposition】 is identified as one, and the wave becomes a particle, that we observe as the phenomenon of an object, an individual particle in four dimensions.

Thus, if we think from the standpoint of the [Original-Order Wave Universe], what is happening in the world of minuscule structures, as treated in quantum mechanics, and what is happening on a cosmic scale, as treated in relativity, appear to be magnificently connected through the Many-Worlds Universe.

I am explaining this 'double-slit experiment' in relation to the [Original-Order Wave Universe], in addition to the 'Many-Worlds Universe Genesis theory'.

If this explains the connection between quantum mechanics and relativity, I hope that researchers

around the world will use this as a basis for further experiments and theoretical development.

This should lead directly to major developments in physics.

■ Solving "Schrödinger's cat".

It is a very appropriate subject for this book to talk about the difference between a world of minimal structure in 【quantum superposition】 and a relativistic maximal structure.

The meaning of the term 【quantum superposition】 has changed somewhat since it was originally proposed, but it is an interesting enough thought experiment.

In quantum mechanics, the paradox of "Schrödinger's cat" is often referred to.

The paradox states that a cat that is in a box, that is designed to detonate a poison pill in response to a certain amount of radiation produced by nuclear decay, can be both alive and dead at the same time until the lid is opened. In other words, the cat is in a

state of both life and death until the lid is opened, and the cat's life or death is determined when the lid is opened. This is an extension of the **【quantum superposition】** argument, that states that multiple situations are possible simultaneously.

If we interpret this in terms of the 'Many-Worlds Universe Genesis theory', it is not a paradox at all, but a clear conclusion. Let's try to interpret this in this manner.

Normally, we assume that the macrostructure of the universe, i.e. the life and death of a cat, has already been determined. Therefore, the cat in the macro-structure of the universe will not be in a state of **【quantum superposition】** - where it will be in two states at the same time, life and death, as expected in this thought experiment.

Therefore, this thought experiment is not a particular paradox in the 'Many-Worlds Universe Genesis theory'.

The essence of this paradox is that the generation of radiation in a world of minuscule structures is influenced by the **【quantum superposition】** of

quantum mechanics, and is linked to the nuclear decay of minuscule structures that are yet to be determined.

This is a good example because it involves the world of minimal structure and the world of maximal structure.

At first glance, from the conditions of this setting, it seems that the life and death of the cat are governed by **【quantum superposition】** , but **【quantum superposition】** is governed only by **【quantum superposition】** at the time just before the decay of the nuclear structure in the minimal structure world. On the one hand, the life and death of the cat are determined ahead of time by the macrostructure of the universe as a macrostructure of the world. The cat is in no way in a state of being both alive and dead at the same time.

This is because, at this time, the life and death of the cat are not governed by the **【quantum superposition】** of the world of the maximal structure.

Thus, although the radioactive substances are indeed in a **【quantum superposition】** prior to the generation

of radiation, the explosion of the poisonous substance is always on the side of observation, it has already become a phenomenon, and it no longer has two states at the same time as in a 【quantum superposition】 .

By extension, therefore, the life or death of the cat is merely a probability. It follows that it would be wrong to say that the cat in the box is in a state of being both alive and dead. In other words, the life or death of the cat has already been decided even without opening the lid. Which is a result that follows common sense.

■The 'group of quantized variables' is the only problem.

Since this universe is originally made up of the [Original-Order Wave Universe], the [Original-Order Wave Universe] is the reality of the universe and the world we see has no reality. We only perceive that it exists.

But although the [Original-Order Wave Universe] is not directly visible, it does definitely exist.

Because the [Original-Order Wave Universe] is a highly universal entity, it pervades the whole universe.

The higher-order variables of the [Original-Order Wave Universe] are like the operating system that runs the computer.

Under the operating system, 'groups of quantized variables' can be combined according to certain sets of rules, allowing for an infinite number of applications.

And there can be different versions of applications, so that basically similar but slightly different worlds can exist.

In this case, the infinite number of applications is the Many-Worlds Universes, and the difference between the different versions would be the differences between four-dimensional worlds cut out from it.

By deciding some 'groups of quantized variables' in the [Original-Order Wave Universe], many universes can be made into original phenomena. In other words, the fact that various multi-worlds can

be originalized by deciding some 'groups of quantized variables' is just a matter of 'how to decide the higher-order variables' from the viewpoint of the [Original-Order Wave Universe]. This is a crucial point, which I will discuss in detail in a later chapter.

Therefore, if only the 'groups of quantized variables' are registered, they can be reconfigured at any time to recreate the past.

It is also possible to create several identical worlds by using the same set of higher-order variables.

The details will be described in the next chapter, but any Many-Worlds Universes reproduced by a different 'group of quantized variables' would not be exactly the same worlds even though the two may resemble each other. Although they would be similar in many dimensions and there would be continuity wherever they are cut, their microstructures would be somewhat different. The Many-Worlds Universe reproduced by the reconfiguration of a group of higher-order variables is never the same as a previously cut out four-dimensional world.

In concrete terms, this means that even if we recreate the past, it is not the past itself. In other words, it is possible to create a past world similar to the previous one by manipulating a group of higher-order variables. Still, it is no doubt a reproduction of a part of the Many-Worlds Universes. Yet there is no contradiction, as we will see later.

By changing some of the 'group of quantized variables', it is even possible to improve by recreating the past and creating a world that resembles it.

And it is the very improvement that is meaningful. It means that it is possible to create a satisfactory world by repeatedly improving the past and remaking parts of it.

Of course, it is possible to simulate the future by combining a set of 'groups of quantized variables' for that purpose. But it is not the phenomenon itself, but the original phenomenon.

Some people may get confused and lose sight of

what is the essence of the universe, but please note that the essence is not the Many-Worlds Universe but the [Original-Order Wave Universe].

The [Original-Order Wave Universe] is the essence, in which there is the idea and the policy of the creation of the universe. It is the Many-Worlds Universe that has tried to realize these ideas and policies, and the rest is only a matter of higher variables, whether it is the creation or the development of the universe. In other words, the Many-Worlds Universe is a creature of the [Original-Order Wave Universe].

The author does not expect the reader to understand the meaning of this simple explanation. In the last chapter, I will add more vocabulary to the explanation.

To familiarise you with this universe, here is a metaphor for a four-dimensional world cut out of the Many-Worlds Universe: if you decide which signals to input to a four-dimensional display, the world will somehow look four-dimensional.

Wearing 4D glasses means exactly the same thing.

Originally, we were looking at the world on a 4D display through 4D glasses, which led to paradoxes and inconsistencies popping up around the 'limits of the world'.

We have already talked about the inconsistency of 4D glasses in the theory of special relativity, as the speed approaches near-light, we approach the 'limit of the 4D world'.

The reason for using the metaphors '4D display' and '4D glasses' interchangeably here is that '4D display' is a four-dimensional world cut out of a part of the Many-Worlds Universe, and '4D glasses' is the structure of human consciousness that has been evolved (?) to be suitable for it.

It is true that the four-dimensional world is an illusion, but it is adequate for human beings to live their daily lives. Some people think that it is enough, but those who want to know the truth about the universe, desperately want to know what it really is. I for one am one of them.

■ The limits of general relativity.

We must now mention the other 'limit of the four-dimensional world' in general relativity, namely the black hole.

When the general theory of relativity and the standard theory were combined, the problem arose that the energy was concentrated at the zero point, which caused numerous infinities in the equations. In order to solve this problem, the superstring theory (Schwarz/Shirk/1984) was proposed, and a solution was found.

Superstring theory (Schwartz/Shirk, 1984) was proposed to solve the problem and it introduced 10 dimensions in the hyperfine structure of particles, and then further introduced an extra one.

Thus, since superstring theory introduces 11 dimensions as the dimension in the microscopic world, naturally, the highest dimension number of

[Original-Order Wave Universe] is assumed to contain more than 11 dimensions ($n > 11$). However, in this book, we do not raise the dimension number to that level directly, but instead assume 11 dimensions as necessary for explaining superstring theory.

In accordance with this, the number of dimensions of the Many-Worlds Universe generated from the [Original-Order Wave Universe] is limited to six dimensions, $p = 6$. This also means that there is still room for us to increase the dimensionality of the [Original-Order Wave Universe] if required.

In the modern world of physics, some people believe that the unification of general relativity with the standard theory (quantum mechanics) has been achieved in a mathematical sense by superstring theory.

I am not in a position to criticize the process that led to superstring theory, but the integration of general relativity with the standard theory (quantum mechanics) means the integration of the

'Many-Worlds Universe' with the [Original-Order Wave Universe], which, as I have stated and will explain later in this book, can be done surprisingly well.

Now, as an author who advocates a 'p-dimensional multi-world universe', I certainly sympathize with the fact that the 'Hawking's paradox' has been solved by increasing the number of dimensions from 4 to 11 in a very microscopic world with a very small structure using superstring theory. On the other hand, however, the sudden shift to eleven dimensions strikes me as extremely peculiar.

Hawking, who was probably very uncomfortable with the introduction of the tenth dimension, initially rejected superstring theory, but eventually accepted the tenth dimension in a microscopic world.

I can relate to Hawking's statement and argument at this time, that I quote below.

"I would rather arrive at a conclusion quickly than with mathematical precision".

I believe, this is a statement that is felt very strongly

by those who deem to express it.

We all need to digest these words calmly. I think he felt an inexplicable uneasiness about the development of a theory that proceeded only on the basis of mathematical equations.

My view on this point is; it is a contradiction to leave Schrödinger's equation in four dimensions as it was in its inception, and then suddenly introduce 11 dimensions to the microscopic world in its final phase. I suppose you could say that eleven dimensions are irrelevant because it is a very microscopic world, also whether this could be proved or not has yet to be confirmed.

■ Fundamental contradictions remain in the debate.

One question we have to ask ourselves is, what are we actually looking for? And it is important to be explicit about this.

One disturbing fact that I have felt when observing the field of physics, that is a supposedly logical

discipline, is that it appears that the people involved have somehow forgotten this important fact.

There are some physicists who believe that the deepest problems of the Big Bang have somehow been solved by superstring theory. But I doubt that we have gained a solution with this theory.

Meanwhile, one thing that seems to be forgotten is that the physics we are dealing with deals with only 4.9% of the total energy, including the total mass, of the universe.

We have already mentioned that Dark Energy, which is said to account for about 70% of the total energy of the universe, has been completely ignored and neglected.

Dark Energy is a completely unknown form of energy, that has emerged as an explanation for the accelerated expansion of the universe, and even that is still a hypothesis. Yet, despite that explanation being a mere hypothesis, the accelerated expansion of the universe is an observed fact.

In terms of energy, the accelerated expansion accounts for 68.3% of the total universe. There is a fundamental reason for the accelerated expansion of

the universe, that is yet unknown.

If the cause is revealed, it will turn the conventional worldview completely on its head.

The reality of modern cosmology is that the accelerated expansion of the universe is observed, yet it is separated and discussed separately as irrelevant to the immediate future. If it were really irrelevant, this view would suffice, but I suspect that to be merely a hope.

It seems that the most important part of the whole, 95.1%, is left out, and only the remaining 4.9% of the world is discussed in detail. This seems to be a very unbalanced debate.

However, according to the theory of 'Many-Worlds Universe Genesis theory', everything that happens near the 'boundary of the four-dimensional world' has an influence from the five-dimensional world of the dimensional boundary region, and there is a hope for the solution to the problem of dark energy, that is considered to be the cause of this cosmic expansion.

The accelerated expansion of the universe means

that the three-dimensional volume of a part of the four-dimensional section of the Many-Worlds Universe is now changing in the direction of increase. If the arrow of time, which indicates the speed of the passage of time, changes, it should appear that dark energy is being generated. There is no guarantee that the arrow of time is always constant, and this is what we want to investigate. At this stage, I don't believe it is possible to say that we understand what is actually happening.

■ Question: What are we seeking now?

In fact, this is something that we are constantly pondering over; we come up with a beautiful equation, reach a conclusion, and then if the equation doesn't explain the empirical facts well, we add a new equation, and so it goes.

Even if the results do a good job of explaining the facts of an experiment, it is not, and should not be seen as the "only solution" in any accurate sense. We should not be deceived by the beauty of an equation's appearance. And this is something that

has been a constant source of consternation for me. One obvious reason for this consternation could be because the underlying equation may be based on a huge misunderstanding. By extension, it may be that there is no "solution" to be found at all. Which could also be entirely possible.

Trying to analyse one part in detail without comprehending the whole picture is nothing more than that.

What we are seeking is the truth, and not of the mere parts, but of the whole picture. We need to remember and reaffirm this, in other words, we are really seeking answers for the relationship between consciousness and the universe.

Since we are dealing with consciousness, the parts are meaningless. We must not forget for a moment that the whole image of the universe is the most important.

We want to get the whole image right first, rather than the minute details. I think that the desire to reach a conclusion as quickly as possible represents this kind of feeling. There is, in fact, a way to get to the conclusion first, as we shall see later.

Let us not forget that it is the image of the universe including consciousness that the author advocates in his 'Many-Worlds Universe Genesis theory'. On the half side of the whole universe, there are the [Original-Order Wave Universe] and the Many-Worlds Universe, and the Many-Worlds Universe deals with $p = 6$ dimensions, and the [Original-Order Wave Universe] deals with $n = 6$ dimensions. It may be difficult to say that it is completely different from superstring theory. Superstring theory hit the 'limit of the 4-dimensional world', in this case a black hole, and combined general relativity and standard theory, and also introduced 11 dimensions, and thus created the superstring theory.

So how does the 'Many-Worlds Universe Genesis theory' stand in comparison with special relativity, general relativity, and the above-mentioned superstring theory?

Superstring theory is based on quantum mechanics at its core, so the Schrödinger equation is the starting point. Therefore, it seems to be somewhat

opportunistic and unpredictable to suddenly introduce 10 or 11 dimensions only in the fine structure of the particle which represents the centre of a black hole in superstring theory, without changing the starting point, even though the equation corresponds to 4 dimensions. It seems to me to be somewhat convenient and outlandish.

Now, the argument of the 'Many-Worlds Universe Genesis theory' is that the Schrödinger's equation, which is the general expression of the wave motion of the four-dimensional world, should include five or six dimensions instead of four from the very first step.

The 'Many-Worlds Universe Genesis theory' is similar to superstring theory in that it introduces a higher dimension, n , as a wave equation, but no matter which method is used, the existence of consciousness does not appear as an extension of superstring theory.

The theory of the 'Many-Worlds Universe Genesis theory' was initially created, right from the start, to deal with 'consciousness'. This is a decisive difference from other theories.

I will deal with 'consciousness' in detail in the next chapter, but I will leave the main subject of 'consciousness' aside for the moment and describe for the moment the material universe in the 'Many-Worlds Universe Genesis theory'.

The four-dimensional world, that is cut out from the Many-Worlds Universe, is only a part of the Many-Worlds Universe, and in the dimensional boundary region it becomes five-dimensional, and near the 'limit of the four-dimensional world', where it enters the five-dimensional dimensional boundary region, it cannot be treated as four-dimensional. A contradiction arises in the fourth dimension.

From there, we enter the dimensional boundary region with the Many-Worlds Universe and have to treat it as a fifth dimension first. Naturally, black holes are also treated as five-dimensional objects in the dimensional boundary region of the Many-Worlds Universe. Naturally, the sixth dimension exists beyond it.

Therefore, I conclude that, as a first step, we need a

new wave equation of n-dimension, which is more than five dimensions, and which is valid in the dimensional boundary region at the bottom of the cut-out four-dimensional world and the Many-Worlds Universe.

Since the four-dimensional world is originally an illusion, when we deal with 'the limit of the four-dimensional world', we have to return all of our theories to their origins, and rewrite Schrödinger's equation (which currently corresponds just to the four-dimensional world) to correspond to the five- or six-dimensional world. We need to take everything back to the drawing board. Naturally, Dirac's equation has to be rewritten in the same way.

■ **The five-dimensional world is a passageway to the Many-Worlds Universe**

Inside a black hole, it is said, neither quantum theory nor the theory of relativity is of much use. But from the point of view of [Original-Order

Wave Universe] and the Many-Worlds Universe, there are few obstacles here and there does not seem to be any contradiction.

The contradiction in the Hawking's Paradox, where heat is generated at the core of a black hole and then evaporates, is strange, but there is no contradiction at all if we assume that in the Many-Worlds Universe energy is transferred to the boundary region of the fifth dimension. There is no need for the strange and unnatural eleventh dimension. If, after the transfer, it moves into an adjacent four-dimensional world, this would mean that new energy was ejected into another four-dimensional world, which would be a reasonable posit in terms of physics.

Though the inside of a black hole is unfamiliar to the four-dimensional world, if we posit that the four-dimensional world is originally connected to the Many-Worlds Universe, it can be considered to be moving to an adjacent four-dimensional world through a five-dimensional boundary region (a connecting passageway).

As mentioned numerous times, if we look at the Many-Worlds Universe as a whole, it is six-dimensional, and the dimensional boundary region (a connecting passageway) is five-dimensional, and the dimensional boundary region can be said to be the passage through which the four-dimensional world exchanges energy with other four-dimensional worlds.

And the five-dimensional boundary region has two regions, one in which the time plane (u,p) is strong and the other in which the additional space axis (w) is strong. Then with both, it becomes a six-dimensional world. (Figure 9) (Figure 10)

Primarily, it is impossible to have a mathematical singularity where the gravitational density is infinite, and where the size decreases rapidly and finally reaches zero, even in a six-dimensional Many-Worlds Universe.

Therefore, we can assume that the black hole will not become a singularity as it is compressed, but will expel its energy into an adjacent four-dimensional world before it does.

At that time, from the point of view of the original black hole, the object drawn into the black hole is lost with its annihilation, but since it is connected to the dimensional boundary region (a connecting passageway) and merely moves to another four-dimensional world.

As it is connected to an adjacent four-dimensional world and information can be transferred, communication is possible.

In order to do this, we must first develop the means to measure where our own four-dimensional world exists, in which dimensional boundary region (a connecting passageway) of the Many-World Universe.

Once such a task is solved, it will be possible to transfer information and eventually matter through small black holes to adjacent universes.

The location of such an event, and whether such an action would result in a new Big Bang, is a question for future research.

There is no contradiction between a Big Bang and a black hole as far as the 'Many-Worlds Universe Genesis theory' is concerned. Information and

energy are not lost, but preserved.

Furthermore, the inflationary theory states that the universe expanded rapidly in a very short time immediately after the Big Bang. The speed of the expansion easily exceeded the speed of light. This is difficult to understand in a four-dimensional world, but it can be reasonably explained using the 'Many-Worlds Universe Genesis theory' as a basis. It can be simply explained by introducing an additional time axis (u,p) and an additional space axis (w).

Furthermore, there are some researchers who posit that "time was generated by the Big Bang", which is difficult to imagine in a 4-dimensional world, but is quite possible if we include a 5-dimensional world. Since the plane created by the additional time axis is two-dimensional, the direction of the 'arrow of time' simply alters, and thus creates no contradiction.

If a Big Bang phenomenon is involved in the dimensional boundary region, time (t) seen from a four-dimensional world can be stopped, and if an additional spatial axis (w) is involved, the expansion speed of inflation observed from the time

axis (t) can exceed the speed of light.

We are indeed living in a Many-Worlds Universe in which such freedom of thought is possible.

Quantum mechanics can be thought of as a four-dimensional projection of a six-dimensional (or more) [Original-Order Wave Universe], and unlike the relativistic world, quantum mechanics is based on a set of quantized variables derived from the [Original-Order Wave Universe], and thus retains its wave-independence until it is converted into phenomena.

The [Original-Order Wave Universe] 'unfolds'.

Therefore, it is always in a state of operation or 'unfolding' in search of an optimal solution, adjusting the set of quantized variables.

And the quantized variables of the optimal solution do not exist in a fixed state, but exist in a progressive state, including their transformations.

■ Four-dimensional worlds begin immediately after the Big Bang.

The Big Bang is essentially described by the same theory as a black hole.

There is no Big Bang that is mathematically a 'singularity' in the same way that black holes are. Therefore, the Big Bang, as the author posits it, does not contain a 'singularity', but occurs in the dimensional boundary region at the lower end of the Many-Worlds Universe from the state that comes immediately after it.

Here, the dimensional boundary region is not somewhere far away, but if we look at the four-dimensional world, all places are directly connected to this dimensional boundary region. From now on, when the phrase "Big Bang" is mentioned, it means the period immediately after a big bang, excluding any 'singularity'.

A big bang can be generated directly from the [Original-Order Wave Universe] in the Many-Worlds Universe, but it can also be generated by a concentration of mass in a single point in the four-dimensional world, forming a black hole, which can appear anywhere inside a

four-dimensional world or in other four-dimensional worlds through the dimensionally bounded region at the base of the multi-layered structure.

They often occur on a large scale as independent four-dimensional worlds, i.e. as large universes with a size of 13.8 billion light-years, or on a small scale as galaxies in existing four-dimensional worlds. They occur quite often within the universe and are basically independent of location. It is like a lightning storm that is hard to forecast where it will strike.

In such a theory, since there is no 'singularity', it is logically reasonable and physically consistent to think that the dense energy of origin is directly supplied from the [Original-Order Wave Universe] at the bottom of the Many-Worlds Universe, or it is generated by the concentration of mass in the four-dimensional world.

There are many small black holes and big bangs in existing galaxies, and while many stars are dying out, new ones are arising at other points.

A natural extension of this argument would be to assume that such energy outpourings exist in the Many-Worlds Universe, and that there are points of energy concentration. I can see no reason to refute this.

At the base of the Many-Worlds Universe, as the quantized variables are determined, the undetermined details of the region of the four-dimensional world gradually emerge from the five-dimensional boundary region.

So far, I have explained that just before the breakdown of modern physics, there is a dimensional boundary region between the four-dimensional world and the five-dimensional Many-Worlds Universe, which is a communication passage with the adjacent four-dimensional world, and that by introducing a new Many-Worlds Universe including the boundary region, various contradictions and paradoxes that we are currently unable to solve, can be explained successfully. However, "being able to explain" is not the same as "being able to prove". In the future, we will have to

prove it by accumulating various experimental facts.

The 'Many-Worlds Universe Genesis theory' will be further developed.

From now on, I would like to further develop 'Many-Worlds Universe Genesis theory', and deal with the origin of the universe and the question of 'consciousness'.

□ Chapter 4

The relationship between the phenomena of physics and consciousness

In this chapter, we will discuss the aspects of consciousness that are directly relevant to physics. We shall also briefly review the chapters up to Chapter 3 and guide the discussion towards the issue of consciousness, relating them to each other in an overlapping way.

As for the scope of the four-dimensional world and the Many-Worlds Universe, I assume that both of them include the dimensional boundary region (connecting passageway), and I have clearly defined the world of higher dimensions that includes the dimensional boundary region (connecting passageway) as the Many-Worlds Universe.

And we have already defined the four-dimensional world (x,y,z,t) as a part of the Many-Worlds Universe.

And we think that in the n-dimensional [Original-Order Wave Universe], the wave equation includes the whole spectrum, and it acts as quantum mechanics in a four-dimensional world.

■Based on the 'Many-Worlds Universe Genesis theory', a new coordinate axis is introduced.

Let us review the meaning of cutting out the four-dimensional world in which we live from the six-dimensional world of the Many-Worlds Universe and the five-dimensional world of the dimensional boundary region.

How to cut out the conventional time axis (t) that we know from the six-dimensional world requires a little ingenuity.

In general, the six-dimensional world can be expressed as six axes (w,x,y,z,u,p). Then, two five-dimensional worlds are defined under the six-dimensional world, one with additional time and the other with additional space.

One is the five-axis with temporal priority

(x,y,z,u,p) , and the other is the five-axis with spatial priority (w,x,y,z,t) , both of which are part of the six-axis (w,x,y,z,u,p) .

And since the four-dimensional world is conventionally cut off by the time axis (t) , its notation is written as four axes (x,y,z,t) .

If we come down in dimension from the six-dimensional world, it means that two kinds of five-dimensional worlds are possible in the dimensional boundary region, namely (x,y,z,u,p) and (w,x,y,z,t) .

On the other hand, since the four-dimensional world is four axes (x,y,z,t) , we can state that the temporal priority five axes (x,y,z,u,p) are closer to our world than the spatially priority five axes (w,x,y,z,t) , because there are fewer changes in additional variables.

It can be presumed that the dimensional boundary region probably contains a mixture of these two types of coordinate systems, i.e. 5-axis (w,x,y,z,t) and 5-axis (x,y,z,u,p) , that leads to 6-axis (w,x,y,z,u,p) .

From this, let us check the meaning of the

four-dimensional cut-out. The description from the higher dimension would be as follows. (Figure 12) It would thus become; six dimensions $(w,x,y,z,u,p) \Rightarrow$ five dimensions $(x,y,z,u,p) \Rightarrow$ five dimensions $(w,x,y,z,t) \Rightarrow$ four dimensions (x,y,z,t) .

Furthermore, the movement between the two kinds of five-dimensional worlds, i.e. five-dimensional $(x,y,z,u,p) \Rightarrow$ five-dimensional (w,x,y,z,t) and five-dimensional $(w,x,y,z,t) \Rightarrow$ five-dimensional (x,y,z,u,p) would be able to come and go relatively freely. (See later).

The Many-Worlds Universe has the original six independent variables (w,x,y,z,u,p) , of which (u,p) is the variable related to time. This is projected as (t) in four dimensions (x,y,z,t) . Or in other words, it is cut out.

Let us explain a little more about the time and space axes in the dimensional boundary region.

When you cut a four-dimensional world from a six-dimensional world, you cut a part of the two-dimensional plane containing this (u,p) into a straight line or curve, and it is posited that the time axis (t) is acquired as the trajectory of the curve on

the two-dimensional plane created by these two additional time axes (u,p) . The direction and size of this cut are called the "arrow of time".

Since we have two variables for the time axis (u,p) , we have four spatial axes (w,x,y,z) . Therefore, the remaining four spatial axes are the four independent variables of the three dimensions (x,y,z) with (w) as an additional spatial axis (w,x,y,z) and the discussion will continue by considering them in this manner.

■ We postulate a passage between the four-dimensional world and the other four-dimensional worlds.

In the symmetrical model that explains special relativity, using the example of two spaceships moving at high speed in different directions, each spaceship has a time delay $[\Delta t]$ with respect to the other spaceship.

Historically, this was an unresolved problem known as the "twin paradox", but the concerned parties had

to give a rationale relying on physics to this seeming contradiction.

So the author has proposed the 'Many-Worlds Universe Genesis theory' and succeeded in providing a physics-consistent and rational explanation by stating that "near the limit of the four-dimensional world, a new four-dimensional world is created for both twins".

As a result of our discussion here, we found out that in special relativity, from the point of view of the observer, there is a time delay only for the observed. And that neither of the twins can be in the position of either the observer or the observed.

The world cut out from the Many-Worlds Universe was a four-dimensional world. Therefore, it seems that time is valid only in this cut-out world, and that a different time exists in other four-dimensional worlds. In other words, time is not an absolute measure in the universe, but a local measure in each region.

The paradox is resolved by understanding that "near the limit of the four-dimensional world, a new four-dimensional world, to which each spaceship belongs, occurs as if it were peeled in two, thereby reconstructing a Many-Worlds Universe, with a time delay $[\Delta t]$ from either side only with respect to the other world peeled in two" as it approaches near-light speed.

However, we have not yet concluded whether it is possible for a third party to perceive the situation in reality from the point of view of either of the twin brothers, or both at the same time.

While special relativity has shown the limit of velocity, general relativity has shown the limitations of gravity.

If we consider the force from acceleration and the gravity from mass as tantamount, we can say that the relation between the special theory of relativity and the general theory of relativity is the relation between velocity and acceleration, and they are both differential and integral.

Furthermore, we mentioned that there is some difference on the coordinate axis regarding the time delay, which indicates the limit region of the four-dimensional world, because "velocity is a relative quantity and acceleration is an absolute quantity" due to the relationship between differential and integral.

On the other hand, as I mentioned in the previous chapter, the existence of a 'singularity' - a point of zero size, mass density of ∞ , and energy density of ∞ - was a major obstacle to the development of the black hole theories of general relativity and quantum mechanics.

The existence of this 'singularity' eventually leads to the contradiction that energy will be concentrated into a size of zero, meaning that all matter swallowed by the black hole will lose its past information, known as the Hawking's paradox or the 'information paradox'.

Let me briefly show what modern physics has to say

on this point.

As a means of resolving the contradiction of the Hawking's Paradox, various views have been put forward. The superstring theory was born, which postulated a ring of 'strings' in which energy was concentrated, and then the theory that energy was stored in a 'membrane' interwoven with the 'strings', and that this 'membrane' was folded into a ten-dimensional world. With this logical development, that introduced other dimensions, the Hawking's paradox seems to have been solved.

So, in this book, let us revisit the concerns of the 'Hawking's paradox' from the 'Many-Worlds Universe Genesis theory'.

The 'singularity' of the general theory of relativity is considered to be mathematical but not rational as a physical entity, and therefore singularities cannot exist. Whereas the 'information paradox of black holes' can be solved by the author's 'Many-Worlds Universe Genesis theory', explored here.

So let's try to deduce what happens when a black hole is crushed by its own gravity from the

'Many-Worlds Universe Genesis theory'. The author's explanation is somewhat similar to superstring theory in that it introduces multiple dimensions and many worlds, but I think it is far more elegant than superstring theory.

Because the author states that this universe is a 'six-dimensional Many-Worlds Universe', not a four-dimensional one, from the onset, and that there is an [Original-Order Wave Universe] consisting of n-dimensional wave equations with $n > 6$, thus avoids the creation of singularities.

Let us reason this through.

When the 'limit of the four-dimensional world' is reached due to the concentration of mass and energy, at the limit of the four-dimensional world, a communication channel or connecting passageway is generated to bridge to a neighboring four-dimensional world, or to the dimensional boundary region in the Many-Worlds Universe, and energy and information are transferred to and from each other.

The further reasoning is that the process of the black hole moving into a new four-dimensional world is a

process of stopping the progression from the minimal to the maximal structure and reducing the maximal structure to the minimal structure, which means that a great circulation of energy takes place. Due to the concentration of mass and energy, the phenomena become original phenomena, dephenomenalize, and the 'group of quantized variables' is reset to start over from a new 'group of quantized variables' by the [Original-Order Wave Universe]. In other words, the maximal structure is reduced to the minimal structure and is regenerated. This reasoning is consistent with physics, and there is no theoretical contradiction.

This reasoning resolves the contradiction between general relativity and quantum mechanics. Therefore, the 'Many-Worlds Universe Genesis theory' can also be seen as relevant here, as it is of fundamental importance within the universe. The world directly related to the four-dimensional world of the [Original-Order Wave Universe] can be considered as the world treated by quantum mechanics.

Thus, according to the 'Many-Worlds Universe

Genesis theory', that is, according to the [Original-Order Wave Universe], it is possible to interpret not only special relativity, but also general relativity and even quantum mechanics beyond the 'limits of the four-dimensional world'.

Even the true nature of gravity may be found in the six-dimensional Many-Worlds Universe and the [Original-Order Wave Universe], but we will fail to find an answer if we search only in the four-dimensional world. Gravity must exist in the six-dimensional world in an intelligible form, without any contradiction.

So now we need to deduce the wave equation and the equation of motion in the six-dimensional world.

■ **The relationship between consciousness and the [Original-Order Wave Universe].**

In the case of the double-slit experiment described previously, if consciousness had not been involved, the electron, an object with a minuscule structure,

would have proceeded in a wave state without determining its fine structure until it reached the end, and the wave would have become a phenomenon on the final screen, creating interference fringes.

On the other hand, if an observation instrument is attached near the slit surface in order to observe and confirm the passage of a particle through the slit at the double-slit, the consciousness of the observer influences the observed side (the electron) to determine a 'group of quantized variables' one after another, which immediately become a phenomenon at the time of observation. That is to say, the electrons become particles at the double-slits and do not form interference fringes on the screen surface, but instead form streaks of two slits. Here the truth that "consciousness determines the 'group of quantized variables'" is revealed. Or rather, it is to state this truth, that we have defined the 'group of quantized variables'.

In other words, if there is no attempt to confirm the observation, that is, if there is no 'consciousness'

intervening in the electron, the electron in the wave state becomes a particle after it reaches the screen and forms interference fringes where it becomes a phenomenon. However, when we tried to observe and confirm the electron, consciousness intervened, and it reached the screen surface in the state of being a particle at the double-slit surface, and made the shadow of the slit.

This means that the relevant quantized variables were suddenly determined at the double-slit stage, thus not producing interference fringes.

Here we can explain that the act of observation by the observer affects the observed, and that the particles become particles and phenomena at the double-slit stage before they reach the screen.

Thus, observation implies the intervention of 'consciousness'.

And it is this 'consciousness' that is the subject of this book. When consciousness is involved, it determines a 'group of quantized variables', and the pre-phenomena becomes original phenomena instantaneously, resulting in the immediate

generation of phenomena.

Without the involvement of consciousness, it would be 'not observed', and there would be no source phenomena, and therefore no phenomena would be generated. There is no contradiction in this.

Here, 'phenomenon', in which all the relevant physics quantities are determined, and 'original phenomenon' state and 'pre-phenomenon', state (that occurs immediately before the 'original phenomenon' state), in which all the relevant physics quantities are not yet determined, were defined, especially for objects belonging to the minimal structure.

It can be deduced from the results of this experiment that in the four-dimensional world that has been cut out, the pre-phenomenal state is held until the very last moment by the involvement of consciousness in an attempt to observe it, and that it is held until just before it becomes phenomena. Perhaps it is safe to assume that the original phenomenalisation in the six-dimensional world and the phenomenalisation in the world of four dimensions occur almost

simultaneously at this time.

In other words, quantum mechanics can be placed at the point where the [Original-Order Wave Universe] is engaged with the four-dimensional world.

■Pursuing the act of 'consciousness'.

In the final chapter, we will discuss the question of consciousness in more detail, but here, as an introduction, we will only raise a few questions. If you are not ready for a discussion on consciousness, it is understandable if you find it difficult to engage in, please feel free to skip it. However, we would like to raise the issue of consciousness and ask the readers to think about it a little.

Issues to raise: The existence of consciousness / the transcendence of time / the illusion of consciousness.

We are always trying to grasp a situation around us and to position ourselves in the environment by using all of our five senses. The environment we are aware of is limited to the four-dimensional world, and it is the five senses that we give priority to in order to live within these four dimensions. We humans use our five senses to understand our surroundings and our position in them.

When we try to learn about the universe, it is important to discover its fundamentals without being deceived by the five senses. When we try to learn about the universe, we must also question all the senses and the very common sense that gives priority to the five senses.

Of these, the most difficult is the position of the conscious man, the positioning of his own existence, which leads to knowledge of the true nature of consciousness. And any systematic study that ignores the human being who is learning it, that is, that ignores consciousness, will fail to get to the essence of the subject and will significantly miss the critical point.

So, in this book, we are trying to place consciousness in the universe.

It is true that it is very difficult to deal with the problem of consciousness as an extension of modern physics, but it is possible to some extent to point out the contradictions in modern physics when it ignores consciousness. At the same time, it shows the limits of physics, which we think of as being all-powerful.

First, I would like to discuss the illusion of consciousness by reasoning based on the theory of probability, and then present my views on it.

If the present moment in which we are living is only one point in the eternal flow of time, then we are living in a place that is probabilistically impossible.

First of all, we need to be aware of this and to recognize that there is a significant contradiction here.

The material universe has a history of 13.8 billion years, and we are living at one of the most advanced points of that history. If we consider this fact carefully, it is probabilistically impossible.

So, in my view, to think that we are living on the

clasp of a miracle of miracles, with impossible odds, is a gross illusion. It is an illusion of the conscious mind, and it is only "what we think we know".

At the same time, we are completely confused by the notion of time and by the notion of the present. The first step is to question this perception of time and its concept.

It is an illusion that there is a point in the universe, the present, where we are now living when the very concept of time itself is an illusion.

In other words, there is no such point as the present. The fact that it seems to exist at all is an illusion of our own consciousness, the great illusion of our consciousness trapped in the "container" of humanity. We need to start exploring the nature of this consciousness.

At the current stage when we don't know what consciousness is, it seems to be a very vague entity, but in conclusion, I believe that this is actually circumstantial evidence that demonstrates that consciousness is a universal entity. That is to say, because our consciousness is essentially the

consciousness of the universe itself, we do not feel strange or uneasy about living in this "moment of trajectory".

Of course, the reader may think that this is a leap of reasoning. But I thought you might like to have a glimpse of the conclusion, so that you can anticipate what I am about to propose.

As an author, I would like the reader to comprehend the utmost importance of clarifying the existence of consciousness. Without the correct identification of consciousness, all disciplines are akin to building towers in the sand.

■ In fact, we have already dealt with the issue of consciousness.

It is evident that the author intended to deal with consciousness from the outset, and has already dealt with the problem of consciousness using alternative words.

From the very beginning of this discourse, the author has been trying to construct a world-view

that does not exclude consciousness.

We have already described the positions of the observers and the observed. This is already clear from experimental facts in the field of special relativity and quantum mechanics.

This act of "observing" and "being observed" is actually an act of consciousness. Thus we have already been dealing with the issue of consciousness.

What does the difference between the observer and the observed mean? How does it affect the world of physics?

From what we have seen so far, the observer is the one whose consciousness influences the other. To be observed is to be affected by consciousness.

Consciousness works in pairs, the one observing and the one being observed.

This is what you need to understand first. And this is the point of contact between the world of consciousness and the world of matter.

This is the point of contact between your inner world of consciousness and your outer world of physical phenomena.

Let us take the discussion further from the side of consciousness.

In our daily experience, when we live in a four-dimensional world, we tend to think that consciousness is vague and that events and phenomena are certain, but in fact this is an illusion created by consciousness, and reality may be akin to a shadow.

To jump to a conclusion, the universe 'unfolds' or 'operates' with consciousness. The involvement of consciousness, through a 'group of quantized variables', set in motion the wave equation that created the [Original-Order Wave Universe] or the wave equation that created the Many-Worlds Universe and formed order within it, from which the four-dimensional world separated. And it is actually consciousness that observes it. Without the existence of consciousness, observation is impossible. Without it there can be no learning.

As we shall see in the next chapter, the thought-actions produced by the nervous system of

the body are themselves creations of pseudo-consciousness, temporary entities, that we deliberately avoid calling 'consciousness' in this book.

In this book we have made a clear distinction between consciousness and pseudo-consciousness in order to deal with them separately.

In other words, the real consciousness in this book is the one that is present throughout the universe and that controls the pseudo-consciousness created by the nervous system of the body.

In other words, human existence is an individual consciousness with a pseudo-consciousness. But this is not so. But if we do not recognize it as such, that is to say, if we consider the pseudo-consciousness as ourselves, then the laws of the universe start to work with the pseudo-consciousness as ourselves.

That is to say, the state of 'awakening' is the state in which we have a correct perception that the essence of man is his individual consciousness.

In reality, even if we have not yet attained awakening, we should hold on to the knowledge that

the essence of man is individual consciousness, and that pseudo-consciousness is not consciousness, even if it resembles consciousness. In this way, we will gradually come closer to an awakening.

Consciousness and pseudo-consciousness are fractally coupled and tightly bound together. This kind of analogical connection was called a fractal structure.

In other words, consciousness is directly connected to the fundamental universe, while the body and the pseudo-consciousness associated with the body are creatures. This distinction is important.

Such fractal structures can be found everywhere in the universe, and from this example of the fractal structure between the universe and the body, we can get some idea of the design of the universe.

We must thus successfully define the existence of consciousness in the way we know it, and this is a very difficult task. However, we hope to develop the discussion here so that we can address consciousness in a manageable way.

Human beings observe their surroundings, judge situations, make decisions and take actions, but it is quite unreasonable to treat these mental actions as 'phenomena'.

It is often the case that several people who have experienced the same 'phenomenon' judge the phenomenon differently. So we call such judgments made through mental action 'events'. In addition to 'phenomenon', we have defined a new concept, 'event'. With these preparations, we will now gradually enter the world of consciousness.

Here, as an introduction, I will briefly define the 'event' below. When we come into contact with a 'phenomenon', we perceive it as having a human meaning, and we find in it a human meaning in terms of the value of life, priorities, and so on. This meaning is given as a thought or received from others.

In other words, thoughts create 'events' and 'events' create thoughts.

Consciousness is the source of this 'event', and as a 'phenomenon' it is common to all.

With this basic knowledge of 'event', we will delve

into the issues of consciousness.

■ **Fundamental consciousness and the constructed pseudo-consciousness.**

We will discuss this in more detail in the next chapter, but as an introduction we will talk briefly about consciousness.

Consciousness is important because it is originally the consciousness of the root of the universe, which is the fundamental being. Here in this book, we have finally been able to define that root consciousness as 'cosmic consciousness'. (Figure 14A)

And we humans share this cosmic consciousness through fractal resonance. And we can define this as individual consciousness.

Here we have defined cosmic consciousness and a separate individual consciousness, but in fact, there are several levels of hierarchical consciousnesses in between.

Let us take a look at the universe and talk about one

of the functions of consciousness, which is the formation of life.

In the diversity of the universe, far beyond our expectations, there is a consciousness called life, and the essence of this life is consciousness itself.

For the sake of clarity, if we talk about the case of a human being, the individual consciousness of the human being is the consciousness that is temporarily suspended in this body. It is commonly referred to as the 'soul'. (Figure 14B)

And the individual consciousness is the consciousness which, from the standpoint of the cosmic consciousness, came down and divided into functions, is fractally connected to the pseudo-consciousness (physical consciousness) of the body, and controls the pseudo-consciousness from the position of master (or pilot) of the pseudo-consciousness in the background.

Now we can turn our minds to discuss the relation between the [Original-Order Wave Universe] and cosmic consciousness. Since we have now collected the necessary vocabulary, we can finally make the

following statements.

The cosmic consciousness is the first step in the order, and the [Original-Order Wave Universe] is the thing which the cosmic consciousness started and expressed its idea and policy as a higher wave equation.

Therefore, our understanding is as follows.

The [Original-Order Wave Universe] is a higher-order wave equation expressing the will of the cosmic consciousness. The higher-order equation has many variables, which are groups of quantized variables. Each variable of the quantized variable group is determined by the cosmic will and the hierarchical consciousness and individual consciousness divided from it.

In other words, [Original-Order Wave Universe] is the place of life activity, and the Many-Worlds Universe created from it is the environment of the life activity.

In the beginning, cosmic consciousness was divided into the observing and the observed. In other words, cosmic consciousness was divided into the position of the observing consciousness and that of the

observed was the [Original-Order Wave Universe]. From this point onwards, the life activity of the universe develops with the cosmic consciousness and its alter ego as the observers and the [Original-Order Wave Universe] as the observed, creating a Many-Worlds Universe.

Individual consciousness and pseudo-consciousness are fractally connected in a hierarchical relationship, but as already mentioned, individual consciousness is the consciousness that came down from the cosmic consciousness and is a branch of the cosmic consciousness, while pseudo-consciousness is a field-responsive cognitive judgment function, or pseudo-consciousness, originated by the [Original-Order Wave Universe] to create an environment for consciousness to operate.

There is an important conclusion to be drawn from this. Cosmic consciousness and the [Original-Order Wave Universe], which were separated in the outset, meet in the here and now from opposite directions, each transforming itself in the course of

its life activity.

The mental action in relation to the body, which we call pseudo-consciousness, gives priority to the functions of thought and action in relation to the body, towards the interests of this body and the preservation of the species.

We mentioned that individual consciousness is the master, and that the pseudo-consciousness is not quite as evolved, yet it behaves as if it were the master of an integrated consciousness, and wields the interests of the individual consciousness. In other words, because it is still in the process of evolution, the individual consciousness, which is the real master, is often at the mercy of the pseudo-consciousness.

The experience of being at the mercy of the pseudo-consciousness is recorded as the experience of the individual consciousness. When that experience is shared with other individual consciousnesses, it is accumulated as the experience of the universe.

Even if the pseudo-consciousnesses of multiple bodies are in conflict with each other, the individual consciousnesses are still one cosmic consciousness, and they are always working together to develop their life activities.

It should be understood experientially that this pseudo-consciousness attached to the body is aimed at the preservation of the species, the preservation of the material and adaptation to the global environment. To a large extent, it is so well adapted to the earth's environment, which can be perceived by the five senses, that it can be mistaken for real consciousness.

The structure of our consciousness is already thoroughly fractal in resonance. If we are only able to become aware of this, then such a world can appear to us in the real world.

And individual consciousness and the pseudo-consciousness continue to evolve towards a deeper fractal resonance. But the status quo is often inconsistent and confusing.

That is to say, human beings, as intelligent life forms, are 'developing' their life activities with the main purpose of exercising their individuality in the environment of the earth, without losing their individuality, in order to become a component of the whole universe through fractal resonance.

Man, as an intelligent life form, is in a stage of 'evolution' as part of the life activity of the universe.

The final form of human life, as an intelligent life form, presupposes a fractal structure through a multi-layered consciousness. It is not, of course, a form centred on a pseudo-consciousness attached to a body, as some people may assume.

The main site of the development of life activity is the fractal resonant body, which is mainly individual consciousness.

That is to say, human beings pursue their life activity in the four-dimensional world as one with the universe.

■ Engagement of consciousness with the

'pre-phenomenal' and the 'original phenomenal'.

We have already introduced the 'original phenomenon' in the Many-Worlds Universe as a stage before phenomena in the four-dimensional world that we are aware of. And when the [Original-Order Wave Universe] engages in the Many-Worlds Universe, it naturally also engages with the four-dimensional world cut out from it, mediated by a 'group of quantized variables', creating 'pre-phenomena', and the life activity of this universe progresses through the direct engagement of the consciousness therein.

If the 'group of quantized variables' is determined, the original phenomenon in the world of five dimensions or more of the Many-Worlds Universe will be determined, and the involvement of the [Original-Order Wave Universe] at that stage will be re-defined as 'pre-phenomenon'.

So far, we have said that the four-dimensional world in which the pseudo-consciousness of our body is

strongly involved in is the world based on phenomena, and the origin of this world is the Many-Worlds Universe based on original phenomena.

However, although the outline classification is true, the explanation so far shows that in the dimensional boundary region (connecting passageway) of the Many-Worlds Universe, there is a mixture of pre-phenomena, original phenomena and phenomena, and even in the four-dimensional world, quantum mechanics says that the world behaves as pre-phenomena until just before the final phenomenalization. We have already mentioned this.

So far, modern physics has ignored the existence of consciousness.

Moreover, even if we were to accept the existence of consciousness here, it would be of little use if we assume that it is merely the result of evolution or exists only in individual bodies, independent of the source of the universe. Consciousness would then have no intrinsic meaning, and it would therefore be

difficult to find any reliable and certain meaning in it.

It would only create confusion and would be detrimental to the development of physics if it obscured the fundamentals of physics.

The Many-Worlds Universe, the original world of the four-dimensional world that my consciousness has chosen, is fractal, resonant, very similar, but slightly different from the world I have chosen to reside in.

'Different' may seem strange at first sight, but we will come back to it in the next chapter, when we will deal in more detail with the concept of 'events'. Then this fact will become even clearer. And it coincides with our everyday experience.

■ **The environment in which we operate.**

To sum up, what we can deduce from the 'double-slit experiment' is that there is a basic blueprint of 'pre-phenomena' in the [Original-Order

Wave Universe], and that consciousness works on the world of the minuscule structure of the Many-Worlds Universe to create 'original phenomena' based on the 'pre-phenomena'. Naturally, there are times when the 'phenomena' of the four-dimensional world are created instantaneously.

In that instance, the 'phenomenon' is a part of the 'original phenomenon', so it is not meaningful to discuss which comes first.

However, phenomenon in the four-dimensional world in which we live constitutes a part of the 'original phenomenon' in the six-dimensional Many-Worlds Universe.

This is called the 'reconstruction of the Many-Worlds Universe' in the four-dimensional world.

To put it in a generalized way, consciousness creates 'original phenomenon' from 'pre-phenomenon'. In other words, consciousness creates the Many-Worlds Universe from the [Original-Order Wave Universe].

Here, such creative activity by consciousness generates and reconstructs the Many-Worlds

Universe, this is why the term 'Many-Worlds Universe Genesis theory' was born.

Moreover, as we have already mentioned, it was the action of consciousness that led to the 'cutting of the four-dimensional world from the six-dimensional Many-Worlds Universe' as the ultimate structure. In other words, consciousness plays a decisive role here too.

With the introduction of the concept of consciousness, an additional explanation of the Many-Worlds Universe is now possible. We have finally entered the core of the discussion. By introducing consciousness, I am asking the reader to understand that the activity of consciousness is not incidental to the creative activity of the universe, but is essential to it.

In the broadest definition of intelligent life, it is the Many-Worlds Universe that is being created by the activities of intelligent life. In other words, the consciousness of intelligent life forms creates the Many-Worlds Universe.

In the broadest sense of the term, the intelligent life forms are physical human beings, physical extraterrestrials, guardian spirits with physical body experience who protect human beings and extraterrestrials, non-physical spirits, gods, and other life forms operating at various levels in the Many-World Universe.

If we define all this life anew as intelligent life, then the Many-Worlds Universe is a world that is being built by the consciousness of these intelligent life forms.

The [Original-Order Wave Universe] is the field of activity of consciousness, where it creates the blueprint for the development of the next concrete life activity (pre-phenomena) by using the quantized variables, and what is created according to the design (original phenomena) is the Many-Worlds Universe.

And when the tunnel construction of this four-dimensional world of "phenomena" is finished,

man will be released from the tunnel and live in the world of the Many-Worlds Universe of five dimensions or higher. In this way, the fractal resonance will be strengthened and we will be able to go anywhere in the universe freely. And you will be free to create anything you want within this fractal resonance.

And there is a group of many-worlds born like a whirlpool, and out of that group of many-worlds, we ourselves have chosen one, and this is our four-dimensional world.

The world in which you live is also just within one of the many universes from which your consciousness selected from.

In the four-dimensional world, which is a part of the Many-Worlds Universe, man experiences and develops and builds his own field of life activity in connection with a part of the Many-World Universe.

■ Pursuing the relationship between consciousness and physics.

From now on, we shall talk about the relation

between the problem of consciousness and physics, which most people do not have sufficient experience of.

When you get right down to it, the [Original-Order Wave Universe] continues to exist and 'develop', even without being transformed into original phenomena, and, of course, even without being transformed into phenomena.

The cut-out four-dimensional world looks like that from the human side, but the cut-out four-dimensional world is continuously connected exactly as it was before to the Many-Worlds Universe. If we think in this way, we can understand that the bottom part of the Many-Worlds Universe is the dimensional boundary area of the world in which we live, and at the same time, it is the dimensional boundary area of the neighbouring four-dimensional world.

Human consciousness is also within the Many-Worlds Universe, and during the 'period of

physical life', that consciousness temporarily comes down from the dimensional boundary region to the four-dimensional world and works within the four-dimensional world. Therefore, this dimensional boundary area is also a communication channel for the work of consciousness.

The major structure of the universe, the maximal structure, has already been broadly created.

And the [Original-Order Wave Universe] covers the whole of the Many-Worlds Universe and the four-dimensional world.

The [Original-Order Wave Universe] is involved in the four-dimensional world as a pre-phenomenon in the creation of the micro-structure and, on the other hand, in the creation of the entire many-worlds universe so far and cut out from it. In the four-dimensional world, the original phenomenon was transformed into a phenomenon, and a unique time was born.

The Many-Worlds Universe is a multi-layered structure, not a flat structure. In other words, it is a multi-dimensional, multi-layered structure.

The [Original-Order Wave Universe] was engaged in the Many-Worlds Universe as pre-phenomenon and created the original phenomenon. Because the Many-Worlds Universe is a creature created from the [Original-Order Wave Universe], it cannot exist separately from the [Original-Order Wave Universe].

The Many-Worlds Universe developed into a more concrete, multi-dimensional Many-Worlds Universe as its maximal structure was determined; the four-dimensional world is the world that arose by cutting a part of it out of the lower part of this Many-Worlds Universe.

Next the issue becomes simply one of the defining of the necessary vocabulary...

The dimensional boundary region at the lower part of the Many-Worlds Universe is a five-dimensional world where several four-dimensional worlds overlap, and it is also a communication passage between several four-dimensional worlds, and several four-dimensional worlds overlap

considerably.

By actively considering the existence of consciousness, various developments will be made in our scientific future.

Our human consciousness is in the process of selecting one world out of many and creating a new one. In other words, our consciousness is actively involved in the creation of the universe in our daily life.

And when we work with our individual consciousness, we are participating in the creative activity of the universe.

So human consciousness is a part of the Many-Worlds Universe, reproducing, adjusting and correcting parts of it from within the four-dimensional world.

■New research methods and disciplines dealing with consciousness.

Up to the previous chapter, we have been discussing the physics of the two different positions of "the observer" and "the observed". In order to proceed further, I believe that we are now at a stage where the issue of 'consciousness' must be brought to the fore.

The two positions of observer and observed, as shown in the special theory of relativity, and the two positions of observer and observed in the double-slit experiment of quantum mechanics, the pre-phenomenal nature of waves and the 'consciousness' that influences their phenomenalisation, will be important keywords in the future.

The world view called the Many-Worlds Universe has been proposed for a long time, but I think that the previous researches on the Many-Worlds Universe have managed to deal with it by extending the conventional methods of physical science.

However, the newly introduced 'Many-Worlds Universe Genesis theory' has already deviated

greatly from the conventional academic system, and we are already in a situation where we cannot evade the issue of consciousness.

From this point onwards, we need a new discipline and new methods. Consciousness, as we shall see, is not at all within the traditional discipline and existing methods.

In conclusion, in order to describe 'consciousness', we will have to start from a conclusion and then, by experientially confirming it, express it in words using the existing vocabulary, which will be an inductive method and argument.

From this point on, we will enter into the issue of 'consciousness', searching for new methods and disciplinary systems, while constructing new methods and logic.

The current scientific explanations consist of self-serving statements like "consciousness is a function acquired by humans during evolution", but that is the same as saying absolutely nothing at all. Furthermore, what can be understood by relying on

such a consciousness in the middle of evolution? Where is this evolution going? Do we not question its direction? Do we avoid thinking about it because thinking about it makes us uneasy?

If we think about it, would our very existence be in jeopardy? What can we gain from relying on this type of consciousness in our studies? If we were to gain anything, what would be the point in it?

No, this simply cannot be.

We need to talk at length about the fact that 'consciousness' is the root of the creation of the universe.

■ The new vocabulary includes pre-phenomena, original phenomena, and phenomena and events.

Earlier, we stated that the [Original-Order Wave Universe] was the origin of phenomena, but this is by no means the original phenomenon, but what refers to as 'pre-phenomenon' which is a more fundamental source of the original phenomenon.

And we have defined multi-dimensional phenomena in the multi-dimensional world as 'original phenomena', that are the origin of the phenomena found in the four-dimensional world.

Next, when 'phenomenon' and the 'original phenomenon' are viewed from consciousness, they are defined by corresponding 'events' and 'original events' respectively. The 'event' corresponds to the four-dimensional world, and the 'original event' corresponds to the Many-Worlds Universe.

Therefore, an 'event' of a four-dimensional world becomes a part of an 'original event' of the Many-World Universe. When there is no particular need to distinguish between them, we will refer to them as events without quotation marks. In order to avoid complications, the explanation will be given in terms of 'events' whenever possible, but the same applies to 'original events' in principle.

The basic design of the universe has already been made by the fundamental universe.

Consciousness, which is the subject of life activity, creates the partial design of the 'original phenomenon' by acting on a 'group of quantized

variables' based on the human meaning of events. In response, the variables of the [Original-Order Wave Universe] are determined, from which the 'pre-phenomenon' is born.

The 'pre-phenomenon' determines the fine variables of the quantum level by the action of the quantized variable group again, and as a result, the 'original phenomenon' is created, which collectively creates the Many-Worlds Universe.

The [Original-Order Wave Universe] creates the basic blueprint for life activity, and the Many-World Universe exists as the field of life activity created from it.

The relationship between 'original phenomenon' and 'original event', or 'phenomenon' and 'event', are two aspects of the universe as a created thing. The creation means being created from the fundamental universe. In other words, 'original phenomenon' and 'phenomenon', as well as 'original event' and 'event', are all created things.

In the four-dimensional world, which is the essence,

the world of matter or the world of consciousness, we have to say that the world of consciousness is the essence, because the material world is naturally the result of the world of consciousness in the process of the formation of the universe. This will be discussed in detail in Chapter 5.

In other words, in the universe, the event takes precedence over the 'phenomenon' and the 'original phenomenon'.

And since matter is only a small part of the whole universe, most of the universe is a combination of events, and this universe is a world dominated by the consciousness that controls the 'events'.

The reader must become somewhat familiar with the significance of this.

Once you are aware of the great illusion created by human consciousness, you will see the world in a different way.

And the events seen from this world of consciousness are often called 'events'.

In other words, in the four-dimensional world, we

should think of 'events' as being accompanied by 'phenomena'.

In the four-dimensional world, 'phenomenon' and 'event' are the same thing, but seen from different 'viewing angles'.

And going back to the start of this book, the observing and the observed have more to do with 'events' than with 'phenomena'. It turns out that they are just different perspectives.

If, for example, the person who observes is described as "the one who wants to do so" and the person who is observed as "the one who wants to be observed", or as "the one who wants to send information" and "the one who wants to receive information" respectively, this is indeed an event. This is because the function of personal taste and judgment comes into play.

At this point, the distinction between 'phenomenon' and 'event' becomes increasingly blurred.

In the pursuit of consciousness, we end up

concentrating entirely on the world in which events unfold, but in this book, I want to discuss 'original phenomena' and 'phenomena' that are out in full view, so as not to veer too extremely towards the concept of events.

On the other hand, in the Many-World Universe, we are at the stage of original phenomena, that have not yet been separated into individual 'phenomena', so here 'original phenomena' and 'original events' almost overlap.

Again, this is just a change of perspective. However, to be precise, 'original phenomena' also have multiple stages, and therefore, 'original events' also have multiple stages, but here, in order not to complicate things, I have kept to these two categories.

When in the Many-World Universe, these used to be the 'original phenomena' and 'original events', but if you cut the Many-World Universe out into the four-dimensional world, they become 'phenomena' and 'events'.

This means "phenomena appear as an arrangement

of objects and events occur in the sense of life activity".

In the case of biological activity, human values enter into the picture. 'Events' are worlds in which the common denominator is the phenomena, but in which the various values of the people involved in the 'phenomena' intersect.

Having written all this, we can finally state that we have the vocabulary to discuss the universe.

For example, a person looks up at the moon and thinks about many things. That is already an 'event'. Some people think of Apollo 11. Some people look for a face of a man in the shape of the moon. Some wonder how many days are left until the full moon. Some people dwell on old memories. They are all different, but they are 'events'.

An 'event' is not always a good thing, as in the following example. If we were to describe it as a phenomenon, it would be: "Where the red light was shining, a lump of iron and a man overlapped". This

is the expression biased towards 'phenomena'. If we rephrase this 'phenomenon' in terms of an 'event' from a different angle, we can say "a car drove onto the road when the traffic light was red and hit a person" or "a person crossing the road when the traffic light was red was careless and was hit by a car".

If we look at this as an 'event' from the world of consciousness, the occurrence of a traffic accident has been gradually prepared in the world of the original phenomenon, and when the physical conditions have been prepared and the conditions for the higher variables have been met, it suddenly becomes a phenomenon.

As a physical phenomenon, it appears to be one, but in terms of the events of the people involved in this accident, it is crucial to know which of them ignored the red light. That is why, as long as we look at the world in terms of 'events', each person's world is very different from the next.

Gradually, only those events that are in line with the

'philosophy' and 'policy' of the [Original-Order Wave Universe] are selected. In other words, the universe created by events is relative at first. Even a lie is treated as an event at first. However, it is the events that are in line with the 'idea' and 'policy' of the [Original-Order Wave Universe] that eventually grow into fractal resonance. So, as a consequence, lies are deleted and disappear due to the fractal gap.

We can say that the 'idea' and 'policy' of the universe are the basic blueprint of the universe, and that consciousness is involved in the [Original-Order Wave Universe] to control the higher variables and create the 'pre-event' that is the source of the event. In other words, "pre-phenomenon" is the same meaning as 'pre-event', and it can be said that consciousness is involved in creating 'pre-event'. This is essentially a question of defining the vocabulary of logical construction. Let us now move on.

Finally, towards the end of this book, we are able to distinguish between 'phenomena' and 'events',

position events correctly, and thus manage to explain a world in which consciousness is involved, and the author can now breathe a sigh of relief.

If you understand this, you will have some idea of the various 'phenomena' and 'original phenomena', and 'events' and 'original events' that occur in the dimensional boundary region.

From this understanding, it is possible to explain not only some contradictions in modern physics, but also UFOs.

Once you enter the dimensional boundary region of the five-dimensional world, you don't have to travel tens of thousands of light-years at near-light speed, but by engaging the additional time axis (u,p) and the additional spatial axis (w) already explained, you can use the principle of quantum entanglement (the principle of 'quantum entanglement' can be used to illustrate how "we can go anywhere in the four-dimensional world in an instant". (Figure 10) (Figure 11)

Moreover, looking at the unnatural flight pattern of UFOs, I am convinced that this is so. This is because there is a discrepancy between the

four-dimensional plane cut out by the UFO and the four-dimensional plane on the earth.

That is to say, there is an uneven surface where the four-dimensional world and the five-dimensional world overlap, so when they fly near the boundary, they appear to move irregularly, shaking, disappearing, or appearing.

There is actually one more thing that convinced me of this. I have had the opportunity to see many UFOs captured on video, but I have noticed that sometimes they only appear in one frame of the video. It was only when I moved the video frame by frame that I was able to confirm that the UFO was only in one of the frames, that had me saying "Just as I thought!"

First of all, for UFOs to visit our world, they have to align time and space with the four axes of our world (x,y,z,t) of our world.

And in general, when a UFO moves in any direction in 6D space, or in 5D space, it always moves in the integrated time plane (u,p) plane. And the time axis (t) of our four-dimensional world also exists in the same (u,p) plane.

That is why, when UFOs move near our world, they often cross our world's time axis (t), like the arbitrary time axis (q) shown in [Figure 9].

It would then appear in only one frame of the video, at a time when the time axes coincide. In other words, there is a moment when the 'arrow of time' of the UFO and the 'arrow of time' of our world intersect.

All this makes me more and more convinced of the validity of the 'Many-Worlds Universe Genesis theory', knowing the existence of a six-dimensional world and a five-dimensional world in the interdimensional realm.

□ Chapter 5

The design philosophy of the universe

■ The activity and circulation of life in the universe.

In the beginning, there was cosmic consciousness. Cosmic consciousness is the fundamental universe itself along with the [Original-Order Wave Universe].

Cosmic consciousness existed first, and it then divided into many consciousnesses and created the field of the [Original-Order Wave Universe] in order to create and arrange an environment to develop life activity at the same time as the creation of the universe.

Due to a lack of vocabulary, we can only describe it in this way: this was an event in the fundamental universe, where neither time nor space existed yet.

Although neither time nor space existed as yet, the original meaning of the concepts still existed, so it is not wrong to describe it in this way. With this comprehension, please read on.

We know we have a limitation to our vocabulary, but we will continue the discussion nevertheless. Life activity means that cosmic consciousness enters an environment prepared by its own self and creates an ideal world of harmony, where it unfolds to observe itself objectively.

There is a rather mysterious component to this, but as we have mentioned repeatedly, life unfolds by dividing itself into two parts: the observer and the observed.

For consciousness, the cyclical process by which the original one thing splits into two, observes the other, develops its life activity, and eventually returns to the one, is the essential activity of consciousness. In other words, cosmic consciousness has briefly separated itself into the observer and the observed in order to become one again.

The [Original-Order Wave Universe] is the fundamental universe born of cosmic consciousness. Since the fundamental universe is an essential being. This is called [EXISTENCE] . Moreover, what is created from it is called [NON-EXISTENCE] .

From now on, we will often describe the structure of the universe as a contrast between [EXISTENCE] and [NON-EXISTENCE] .

The cosmic consciousness created the [Original-Order Wave Universe] as a place for the development of its will, i.e. as a place for expressing its 'basic concepts', and prepared a large number of higher-order variable groups at all levels of the [Original-Order Wave Universe]. And by controlling them, the cosmic consciousness created time and space, and created the world of the creation that we have named the Many-Worlds Universe here, that is the world of [NON-EXISTENCE] .

In other words, this is when the creation that is the Many-Worlds Universe came into being.

[EXISTENCE] generated [NON-EXISTENCE] .
When [NON-EXISTENCE] was created from
[EXISTENCE] , the universe began to develop its
vitality.

Higher variables intervened in the relationship
between the [EXISTENCE] , and this was
consciousness, and [NON-EXISTENCE] , which is
a creation. The higher variables existed between the
[EXISTENCE] and the [NON-EXISTENCE] , in
order to make fractal connections with each other
and to share information. They could be called
translators of meaning, dimensional transformers, or
information transformers.

In other words, in order to combine [EXISTENCE]
and [NON-EXISTENCE] , a large number of
higher-order variables were prepared. The higher
variables were activated by the engagement of
consciousness and created the world of
[NON-EXISTENCE] .

On the other hand, the cosmic consciousness
separated itself into several layers of consciousness,
rather like cell division, and finally into individual

consciousnesses. Or to be more precise, it separated and replicated itself.

By controlling the higher variables, each level of consciousness entered into the world of [NON-EXISTENCE] and created the Many-Worlds Universe, in which life activity 'developed' immensely.

The whole of the [Original-Order Wave Universe] is a multi-dimensional order, but each hierarchy of the [Original-Order Wave Universe] also creates its own order, and there is a hierarchical consciousness roughly corresponding to it, and controlling each order in each domain is a hierarchical consciousness acting as the manager of each multi-layered order. It is the creator of the Many-Worlds Universe.

For the 'unfolding' of the Many-Worlds Universe by the [Original-Order Wave Universe], the action of each hierarchical consciousness that determines the group of higher-order variables is absolute, and nothing can be determined for the group of

higher-order variables without consciousness.

Each hierarchical consciousness and individual consciousness determines the group of higher-order variables for which it is responsible, thereby 'unfolding' the life activities of the universe.

Cosmic consciousness and [Original-Order Wave Universe] classified as [EXISTENCE] is the state of the universe just before it develops its life activities, and is the stage where only the 'idea' and 'policy' that determines the next activity exists. The universe's existence can exist with only the [Original-Order Wave Universe] and this initial cosmic consciousness alone - before the creation of individual consciousness - and can be classified as [EXISTENCE] .

In other words, the universe is the cosmic consciousness of the universe as [EXISTENCE] , the [Original-Order Wave Universe], each hierarchical consciousness divided from the cosmic consciousness, and individual consciousnesses. The Many-Worlds Universe is created from the [Original-Order Wave Universe] by the action of

consciousness, but it is [NON-EXISTENCE] .

And at the beginning of the beginning, there was only cosmic consciousness.

If we were to ask the question, "what is the Creator?". The answer is Cosmic Consciousness.

Furthermore, the cosmic consciousness that has separated from its own self and directly created the [Original-Order Wave Universe], including each level of consciousness and individual consciousness, can be referred to as the fundamental universe. And up to this point, it can be called [EXISTENCE] .

The term [EXISTENCE] will be used hereafter for the basic structure of the universe. The distinction between [EXISTENCE] and [NON-EXISTENCE] is crucial for future developments.

Since consciousness is not a physical phenomenon, it cannot be expressed in terms of dimensions.

Henceforth, consciousness will be expressed in terms of hierarchies.

Secondly, since the Many-Worlds Universe is a creation, we have already posited it with a dimensionality of six, as an extension of macroscopic physics.

On the other hand, the [Original-Order Wave Universe] is not a general physical phenomenon, but it can be treated as an extension of quantum mechanical action, so I will express it in terms of dimensionality, corresponding to the dimensionality of the Many-Worlds Universe.

■The 'Many-Worlds Universe Genesis theory'

It is important to repeat again and again that there is a distinction between [EXISTENCE] and [NON-EXISTENCE] in the universe, and that the Many-Worlds Universe is excluded from [EXISTENCE]. This means that the Many-Worlds Universe is [NON-EXISTENCE] and therefore not an absolute universal entity.

In the Prajna-paramita 『般若波羅蜜多』 Heart Sutra

「般若心經」, which will be shown later for comparison, [EXISTENCE] exists when [NON-EXISTENCE], namely the Many-Worlds Universe, is excluded from the whole universe. At that point, the [Original-Order Wave Universe] cannot be separated from cosmic consciousness as it is the same thing.

At the very root of the universe, there is the cosmic consciousness and the [Original-Order Wave Universe] as [EXISTENCE], and everything started from this cosmic consciousness, but it can also be said that it existed within the [Original-Order Wave Universe]. That is to say, only this [EXISTENCE] existed in the beginning.

A definite 'principle' is established by the cosmic consciousness and is set in motion according to a 'policy'.

At this stage, the Many-Worlds Universe as [NON-EXISTENCE] does not exist yet.

When the [Original-Order Wave Universe] is born by the activity of the cosmic consciousness, the

separation of the cosmic consciousness starts correspondingly, and as life activity 'unfolds', hierarchical consciousness arises, and at the same time, in relation with each level of the [Original-Order Wave Universe] , the [NON-EXISTENT] Many-Worlds Universe arises as the place of life activity.

To repeat, the Many-Worlds Universe is [NON-EXISTENCE] generated by [EXISTENCE] .

Hierarchical consciousness and individual consciousness are the same as the cosmic consciousness, so in the end, we can classify them as [EXISTENCE] .

Cosmic consciousness, as well as the hierarchical consciousness and individual consciousness, have no size, no shape, and no weight. The action of consciousness is not a physical law, so it cannot be expressed by physical quantities. Therefore, things that are not phenomena have no dimensions. However, although it is true that there are no dimensions, the hierarchical consciousness exists

corresponding to the dimensions of the [Original-Order Wave Universe].

Here, the lowest level of hierarchical consciousness is the consciousness in the four-dimensional world in which we live, i.e. individual consciousness.

For us human beings, the field to which this individual consciousness belongs is naturally the most important, because it is the place where our life activities are developed. However, if we look at it from a larger cosmic perspective, this is not necessarily the case.

That is to say, not only the earth's human beings but also other beings, which we refer to as extraterrestrials, exist, and there are cases in which the central place of life activity is one in which hierarchical consciousnesses are vertically connected, and in which one of these hierarchical consciousnesses is the main place of life activity.

If humanity is to seek a relationship with extraterrestrials in the future, we need to respond with such a vision and perspective. Moreover, when

we human beings finish our life on this planet and move on to the next life, we will move into one of the levels of consciousness. In fact, such a transition is already taking place in humanity.

It will not be ordered from some external source, but it will be done in fractal resonance, in unity with cosmic consciousness, and of its own will, in whatever way it desires.

Having written this far, I despair that we do not yet have sufficient vocabulary to describe cosmic consciousness and the structure of consciousness.

However, cosmic consciousness creates the universe and expands the field of life activity through various experiences in the process of developing its own world.

I would like you to firmly place in the center of your mind that the will of the cosmic consciousness is the beginning of everything and the root of the cosmic creation.

Please read the following without viewing cosmic consciousness as a distant entity, but with the knowledge that the source of your existence is cosmic consciousness.

The author has broadly classified consciousness into cosmic consciousness, hierarchical consciousness, and individual consciousness, which, as I have mentioned frequently, exist in a fractal resonance relationship, simultaneously taking on various states and oscillating within the range of those states. In other words, consciousness is an order that shares a philosophy. It is the order that is creating the universe. "Creating" means 'in the process of creation' and not only in its completed form.

Let us look a little further at cosmic consciousness which is the original consciousness, the original form of the cosmic order, and the most perfect form of order.

I have already dealt with the problem of consciousness in detail, separately from the field of physics.

I shall borrow some of the vocabulary used in my books "The Code Has Been Deciphered" and "It was incomplete: The Heart Sutra" to further deepen their meaning.

The nature of cosmic consciousness and the [Original-Order Wave Universe] is described in the Heart Sutra as The Three Basic Natures: 『不生不滅・不垢不淨・不欠不滿』 "Eternity, Absoluteness, and Universality".

In other words, eternity refers to the transcendence and perfection of time, and since existence has always existed since the beginning, "nothing can ever be born nor perish."

Secondly, unadulterated purity means absoluteness: "The whole universe is unified in one consciousness and operates on one principle".

The expression of the one idea by the consciousness that governs the universe is expressed in diversity, and the different forms of expression support and help each other to make up the system of the universe".

I have written about this in detail in my book, "It was incomplete: The Heart Sutra" (Kembunsha), but if the solution to all the mysteries is one, then it is only natural that the worldview pursued by physics and the worldview pursued from

consciousness should coincide.

■ Human pseudo-consciousness and fractal connections.

The human body is a container for consciousness, and in order to receive consciousness, there is a pair of structures on the physical side that correspond to the structure of consciousness. It can be known as a fractal structure working by means of fractal binding.

In this book, in order to avoid the confusion of words, I call the consciousness derived from the cosmic consciousness 'individual consciousness' and the container on the physical side that contains the individual consciousness 'pseudo-consciousness'.

The reason for using these two names is to make it clear that the individual consciousness originates from the cosmic consciousness and is

[EXISTENCE] , but the pseudo-consciousness on the physical side is [NON-EXISTENCE] .

The pseudo-consciousness of the body is a fractal structure made to resemble consciousness, but it is not consciousness itself. In other words, it is not [EXISTENCE] . This pseudo-consciousness, which resembles the consciousness of the body, is able to perform its full function in fractal resonance with the individual consciousness.

The pseudo-consciousness of the body is in an evolutionary stage, and the future goal of this evolution is to create a fractal structure in which the individual consciousness and the pseudo-consciousness of the body become more evolved.

There is a very good modern metaphor to show the relationship between individual consciousness and pseudo-consciousness.

Namely, pseudo-consciousness is similar to the AI function loaded on a self-driving car. That artificial intelligence resembles human intelligence, and it corresponds to the pseudo-consciousness.

In other words, the individual consciousness (the

driver) controls the device in which the pseudo-consciousness (the artificial intelligence function) operates. The AI function in the car somewhat resembles human consciousness, but it is by no means consciousness itself, nor the driver. In fact, we'll continue to use a self-driving car as a metaphor to explain further since this is a technology that the author is involved in as part of his professional life.

In Level 3 vehicles, which display the degree of evolution of automated driving, humans are engaged and ultimately in control, with human decisions. The individual consciousness corresponds to the driver, while the AI function corresponds to the pseudo-consciousness of the body. The vehicle corresponding to the physical body can be a sports car or a dump truck.

The pseudo-consciousness is incomplete and can be seen as similar to a level 3 AI function. Level 3 is the degree of automaticity that allows the driver to let go of the steering wheel under certain conditions, but to be ready to return to driving at any time. The relationship between the driver and the AI vehicle is also fractal, and is evolving towards a better fractal

coupling.

Automatic driving by AI functions is a very limited condition, for example, it can only drive on roads. It is also designed to adapt to the known facilities and traffic conditions on the road, which means it is very conditional. No matter how far AI evolves, a machine is still a machine, and there is no guarantee that it will always make the right decision in each situation.

And of course, the evolution to improve the performance of these machines is important and this is always being undertaken.

In this way, Level 3 automated driving allows the vehicle to be moved more safely and is fit for this purpose, even if the AI is imperfect, and has to be directed by human judgment in the case of an emergency.

When driving a vehicle, the pseudo-consciousness perceives the pseudo-consciousness and the vehicle by superimposing its own image of the vehicle, which it initially created, on the actual physical

vehicle. This image is a fractal connection between the pseudo-consciousness and the vehicle.

This image is a fractal connection created in the pseudo-consciousness, and of course, it is not the vehicle itself. We can say that the image is not

[EXISTENCE] .

And our pseudo-consciousness too is not the physical body that we imagine ourselves to be. It is an image, an energy body, a 'fractal coupling'.

So, with the disappearance of the body at death, the fractal connection is dissolved and the individual consciousness moves to the next stage of

hierarchical consciousness, but this image remains for a while as an energy body. But because it is

[NON-EXISTENCE] , some of it will remain as a legacy to humanity, while the rest will eventually disappear. This image is a matching device between consciousness and the pseudo-consciousness of the body, not consciousness itself of course.

In this book, when we speak of consciousness and pseudo-consciousness, we are assuming the existence of fractal connections such as the one demonstrated in that explanation.

In general terms, it is good to know that "in order to combine different systems or different dimensions, we have to create an energy conversion system to fractally combine them as an information converter".

Stepping away from our metaphors; consciousness has existed as cosmic consciousness since before the emergence of the Many-Worlds Universe, while the parts of judgment and thought that depend on the body have been designed and created to respond most appropriately, purposefully and efficiently to the four-dimensional world carved out of it since after the emergence of the Many-Worlds Universe as a pseudo-consciousness of the body, as in the aforementioned AI.

When the four-dimensional world is cut out from the Many-Worlds Universe, the individual consciousness and the pseudo-consciousness work comprehensively and react correspondingly to the four-dimensional world.

Thankfully, in spite of the cut-out four-dimensional world, the individual consciousness is also involved

in the [Original-Order Wave Universe] via the higher variables, and the function of determining the minimal structure remains intact.

Nevertheless, the individual consciousness, under the influence of the pseudo-consciousness, is under an illusion that there is only the present as a mode of action. The consciousness, that has been taken in by the pseudo-consciousness, tries to understand only one point, the present, which is necessary for the functioning of the body.

Moreover, we are strongly influenced by the functioning of the pseudo-consciousness of the body, and we understand the judgments of the pseudo-consciousness as if they were real, so that we cannot see the true state of the universe beyond the 'present' unless we abandon the understanding of the AI.

Incidentally, this author maintains that individual consciousness is the essence of man, and the pseudo-consciousness on the physical side is not the essence of man. So, some people who study the

universe may argue that the pseudo-consciousness on the physical side is the essence of man.

The important thing to note here is that if we continue to hold that view, we will never be able to arrive at the world view presented by this author. Of course, it is always possible for me to recant this view.

I hope that the readers have understood the author's argument well enough so far, and that this difference in perception here is a critical juncture for the future of human life.

This book naturally opts for the author's argument and proceeds to discuss human nature as individual consciousness.

Therefore, in order to pursue consciousness as the essence of human beings in keeping with the author's argument, we have to discard once and for all the judgment of pseudo-consciousness from the standpoint of consciousness. In other words, we need to train ourselves to leave the pseudo-consciousness of the body. And it can be done.

It is a practice of identifying the fractal connections

that are inconsistent, and then releasing them. Once the fractal connections are released, we can see everything, but this practice is not something we do on our own. It is necessary to do it carefully, following the procedure named Jimeigyō as outlined in my book "Human Redo" (Kembunsha Publishing).

On the other hand, the evolution of this confused and confusing pseudo-consciousness is also part of life's activity. When we speak of human evolution, we naturally include the evolution of the pseudo-consciousness as well as the evolution of the body itself. The pseudo-consciousness naturally evolves in search of a fractal union with the individual consciousness.

And from the point of view of the individual consciousness, it often enters the body as a 'soul' and fractally combines with the pseudo-consciousness. And especially in the case of terrestrial humanity, the site for this cultivation is this four-dimensional world, so the freedom of activity of the pseudo-consciousness there is given considerable priority. Therefore, although the cultivation

progresses, many contradictions also occur. That is why there is a 'helping hand' from the immediate hierarchical consciousness. This is the feedback of the system of the universe. This is so important that we will return to it later, after we have properly defined the concepts of system and feedback.

And we must always remember that the judgments and thoughts of the pseudo-consciousness of the body are so well adapted to the environment, that we perceive the four-dimensional world as real. But even so, a machine is still a machine, and if we lose sight of this perspective when we make important decisions about the values of the universe and the future, it can lead to the failure of the human system at crucial moments.

Therefore, the functions of the cerebrum, which resembles a superior machine (AI) related to the body, must be clearly perceived as pseudo-consciousness and must be considered separately from the individual consciousness defined here.

The pseudo-consciousness of the body is by no means the individual consciousness, no matter how far it evolves. Without the control of the individual consciousness in principle, the pseudo-consciousness alone cannot reach a state of universal fractal resonance that resonates with the universe. And in the ultimate stage of evolution, the individual consciousness and the pseudo-consciousness can resonate to become a superior fractal resonance.

That is to say, we are aware that in our everyday judgments there is an undifferentiated mixture of judgments of pseudo-consciousness within individual consciousness. In order not to misunderstand these judgments as the judgments of the individual consciousness alone, or of the pseudo-consciousness itself, we have to live with the knowledge that both are mixed, even if we cannot distinguish them correctly.

Through repeated physical births and deaths, the individual consciousness has a physical body several times, but eventually it ceases to return to

the physical body and returns to the cosmic consciousness. For the individual consciousness, the experience of living in a body for a while is very useful for the guidance of other individual consciousnesses and for the development of life in the universe. In addition, the experience of living on earth is used as a tool of expression and as a component of the environment in the Many-Worlds Universe, expressing events as one wishes, creating a unique world in the hierarchical consciousness within the Many-Worlds Universe, that becomes part of the Many-Worlds Universe.

And the pseudo-consciousness on the other hand evolves as a pseudo-consciousness and further evolves a fractal union with the individual consciousness. It evolves its body to adapt to the real physical space and the changing environment, to preserve itself, to protect its species, or to improve itself, until it is able to live in another four-dimensional world or in a higher Many-Worlds Universe.

■ **What is it to observe and to be observed?**

Importantly, consciousness, any consciousness, not only cosmic consciousness, but also the hierarchical and individual consciousnesses, separates itself into the position of both observer and observed, experiencing both positions, and eventually coming back together again, as the need arises.

This is an important part of the picture, but as the reader, this may not immediately register with you. I want you to bear this in mind at first, even if you have doubts about what it means.

And the classification of consciousness into several kinds is also a classification according to its function, not a separate thing by nature, but in principle integrated into one via fractal resonance. As a metaphor, they correspond to the cells of the human body. That is to say, the individual cells that make up the human body were originally generated by dividing and separating from a single fertilized cell, and they are essentially the same cell, not

different, only divided by their function.

In particular, individual consciousness operates in the four-dimensional world, which is the farthest from the cosmic consciousness, and it tends to be influenced by the self-preservation of the pseudo-consciousness related to the body, and it operates under the control of the cosmic consciousness and the hierarchical consciousness. Here, "control" means 'guidance'.

However, because of the free nature of consciousness, if we do not seek it strongly, the control will be weak. And if you want to be in a strong fractal resonance, you will be in strong control. However, as a practical matter, it is not necessary to seek strong fractal resonance at every level.

We can seek fractal resonance by concentrating on our immediate hierarchical consciousness, which is the lowest of the multiple levels of hierarchical consciousness.

After that, if the connected hierarchical consciousness judges it necessary for the individual

consciousness, it will connect us to a higher hierarchy of consciousness. There is no need for us to think about it and seek fractal resonance, or anything artificial like that. We just have to leave it to them. You don't have to worry about whether you can do it or not. Remember that consciousness has the power and ability to create the world as it wishes. The biggest obstacle would be for the pseudo-consciousness to deny it. When that happens, we can simply seek out the denial and reject that denial.

This book focuses on the image of the universe and describes it with an emphasis on its structure, but please refer to my book "It was incomplete: The Heart Sutra" for a detailed description of the relationship between man and the universe and the action of consciousness.

Basically, individual consciousness, in constant union with cosmic and hierarchical consciousness, can create events in a state of strong fractal resonance by controlling a wide range of higher variables in fractal resonance. This is extremely

significant for the life of the universe.

Even if we ignore the cosmic consciousness and the hierarchical consciousnesses, we will still have uninterrupted control and we will have enough control to maintain life. It is important that we voluntarily orientate ourselves to the hierarchical consciousness and seek fractal resonance.

Everything other than the cosmic consciousness is a conscious resonator of the cosmic consciousness, that runs its life activities according to its assigned role.

We can then operate under the supervision of a higher consciousness, either as a watcher or by placing a watcher within ourselves. Therefore, while experiencing the position of both observer and observed in one individual consciousness, we develop the creative activity of the universe so as to align our activity with the fractal resonance of the universe.

The creative activity of the universe that is about to begin, or has just begun, is the development of life through the work of both the active creator and the watcher who monitors and corrects the activity for

feedback. This is the creative activity of the universe.

But we must always remember that cosmic consciousness and the [Original-Order Wave Universe] are [EXISTENCE] and 'Eternal'.

Each is a duplicate of the original Cosmic Consciousness, in fractal resonance, with different functions, but not different.

It is as if the individual cells of the human body are dedicated to the function of their parts, but one cell has the same genetic sequence as the cells of the other parts, and is the same species as any cell in the whole body, and is in no way separate, and the individual cell is always in fractal resonance with the whole cell.

The fractal structure of the cell's relation to the whole is a fractal structure, which in turn resonates with the fractal structure of humanity.

Further developing, we can say that the "relationship between the individual and the whole" of this cell resonates with the fractal structure of the universe,

and that the individual consciousness is in fractal structure with the consciousness of the whole, and finally in fractal resonance with the consciousness of the universe.

Because cosmic consciousness created the [Original-Order Wave Universe], the [Original-Order Wave Universe] has the same consciousness as cosmic consciousness. It can be called hyperquantum consciousness, but in this book, we treat it as cosmic consciousness itself in the sense of being one with cosmic consciousness. The [Original-Order Wave Universe] is related to the higher variables and also to the individual consciousness. Through the interaction of the individual consciousness with the cosmic consciousness of the [Original-Order Wave Universe], the higher variables are determined via fractal resonance.

Consciousness is multi-layered, the cosmic consciousness exists in an all-encompassing way, but individual consciousness is part of a multi-layered structure, as it is involved in a group of higher variables, in a state of fractal resonance.

But although individual consciousness is only a part of the function, it is a function, and its existence can return to the cosmic consciousness itself by taking on a fractal resonant state.

■ **The Universe as a system.**

Life itself is a cosmic system, and a system consists not only of a flow in one direction, but also of a feedback flow in the opposite direction, which controls the whole system and develops it towards its ultimate goal.

This system principle, as we know, is also employed in the systems we build, where control is applied in the opposite direction to a positive flow, which we understand as the familiar feedback system.

However, the feedback system in the four-dimensional world we know is one that detects errors in the system's output and returns them to the input side in order to stabilize the system.

This is the system and feedback in the four-dimensional world we live in, but I will extend the definition in my own way and develop it into a theory of feedback that can be applied to higher dimensions.

Although not essential to the system, feedback stabilises the system so that it is always under control and can eventually reach its goal, as long as the system does not fail.

Now that the linguistic terms are in place, let us further define the relationship between the creative activity of the universe and the life activity of consciousness as a feedback system.

First of all, the definition of a system is: "A system is a mechanism that operates with a purpose". If it does not have a purpose, it cannot be called a system.

Moreover, it is consciousness that gives purpose to the system. And consciousness is a being with a will. It is this will that drives the system.

If we are to express it in a single word, it would be "will", but if we try to deal with it or express it mathematically, we are left at a loss. In the world of mathematical logic that we have accumulated, we find that there is no such means of expressing consciousness.

In the world of mathematical logic, a mathematical formula is just a set of promises, but I would like to pause here to consider how to deal with the concept of "will".

From the earlier definition, the system can be defined in more than four dimensions. It can also be applied to the Many-World Universe and the [Original-Order Wave Universe].

So, the universe is a mechanism that operates for the purpose of life activity in a multidimensional universe of four or more dimensions. It is consciousness that gives it its purpose.

Human beings are part of a system that shares the same objectives, and at the same time gives them a purpose, a system that constantly balances the whole and the parts, transmits and receives information in both directions, and is given considerable freedom

to do so.

Let me explain a little more from the perspective of the system.

Let us assume that the feedback to stabilize the system is also established in the multi-dimensional universe above four dimensions. Then the universe, and mankind, can be treated as a feedback system in a Many-Worlds Universe of more than four dimensions, and also in the [Original-Order Wave Universe].

So, "man is a system operating in fractal resonance with the cosmic consciousness, with free will, for the purpose of life activity". This is the relationship between the universe and man, and the purpose of man's life can be traced back to this.

The state of fractal resonance is the state in which this action pervades the individual parts of the system of the universe and in which the whole operates without contradiction.

Man is a part of this life activity, but when in fractal resonance, when united with the cosmic

consciousness, we are also the whole of life activity. There is no such thing as a universe separate from life, and life is the very image of the universe.

Here, I would like to resolve something that has been bothering me for some time.

In the system of the universe, the whole was always in fractal resonance. And the parts that make up the whole are also in fractal resonance with the whole. If we describe it as a feedback system, then the whole constitutes the feedback system. And the parts within the whole also have their own internal feedback system, and the whole, including the parts, always gives appropriate feedback to the parts, so that the system is stable for both the parts and the whole.

However, there are times when the free will of consciousness is disturbed by pseudo-consciousness or any other factors and, one experience can cause the system to fail. It means that part of the system has deviated from the feedback, and that part of the system may even fail.

In this case, the failure of part of the system means that a larger feedback is involved, protecting the whole system.

By the way, even if the system fails, the fractal resonance of the whole is maintained correctly, and the feedback system continues to function properly. In other words, whether it is a whole or a part of the system, we want to avoid system failure as much as possible, so we apply strong feedback when the system is moving towards failure, or when it starts to move towards failure... before the system fails. Such emergencies to normalize the system are also a powerful function of fractal resonance.

■ **The [Original-Order Wave Universe] and consciousness.**

Up to this point, the word 'unfolding' has been used as a concept that is essentially time-independent, whereas the word 'evolution' has been used as a concept that follows a time axis.

As the cosmic consciousness willed and determined

the higher variables of the [Original-Order Wave Universe], the Many-Worlds Universe was born. Cosmic consciousness and the [Original-Order Wave Universe] are the fundamental principles pervading the universe, they are 'immortal' and are the fundamental universe itself.

And it is 'consciousness' that freely sets and determines the higher variables, and 'consciousness' is also free to further change certain higher variables once they are determined.

The higher variables are directly related to the Many-Worlds Universe, to consciousness and to the [Original-Order Wave Universe], that creates the universe. The characteristics of the higher variables are especially important in that they are involved in all the relationships between [EXISTENCE] and [EXISTENCE] , between [EXISTENCE] and [NON-EXISTENCE] , and between [NON-EXISTENCE] and [NON-EXISTENCE] , and they control the relationships between them and are directly involved in the creative activity of the universe.

As mentioned above, we create the Many-Worlds Universe from the [Original-Order Wave Universe], but we can create it in the most convenient way for consciousness, because the cosmic consciousness has a will and creates it with the same design concept. It can be made in the way that best suits its philosophy. Rather than making it directly, it creates a blueprint with a set of higher variables and then changes the higher variables according to the blueprint, so that it can cope with any variation and create the universe under a consistent policy.

Since cosmic consciousness is essentially the same as human consciousness, it can express therein all the ideals that man can conceive. In this way the life activity of the universe 'unfolds'.

Now, we will summarize the results of our discussion in a logical formula.

As a preparatory task, we will denote $p = n$ to simplify the discussion.

The phenomenon of the universe is denoted by Γ (gamma).

If we write $\Gamma_n = \Omega \cdot H_n$, the meaning is that the

equation represents the 'phenomenon' of the n-dimensional Many-Worlds universe born from the n-dimensional [Original-Order Wave Universe] (H_n) with the involvement of consciousness (Ω). This shows that the n-dimensional wave equation is a phenomenon involving the 'will' action of the cosmic consciousness called Ω .

The phenomenon (Γ_n) in the nth Many-Worlds Universe (H_n) among many many Many-Worlds Universes ($H_1, H_2, H_3, \dots H_n \dots$) represents the birth of the action of all consciousness (Ω) in the universe [H_n].), the phenomenon (Γ_n) in the nth Many-Worlds Universe (H_n) represents the birth of the action of all the consciousnesses (Ω) of the universe in relation to [H_n]. Up to this point, the 'group of quantized variables' (ΣG_x) is a notation that does not appear in the logical formula.

Now, if we express the total 'will' of the cosmic consciousness (ω_0), each hierarchical consciousness (ω_k) and individual

consciousness (ω) as $\Sigma(\omega)$, we can write $\Omega = \Sigma(\omega)$.

Moreover, ω is the action of each consciousness directly moves the 'group of quantized variables' (ΣG_x) and makes the minimal structure and the maximal structure of the Many-Worlds Universe, so if we substitute this, we get the following.

$$\Gamma = F \cdot \Sigma G_x + H \cdot \Sigma G_x$$

Here $F \Sigma G_x$ represents the minimal structure generated from the higher wave universe, and $H \Sigma G_x$ represents the maximal structure generated or modified from the Many-Worlds Universe.

But here, what we really want to know is not only the 'phenomenon' (Γ), but also the event (Φ).

Since Φ and Γ occur simultaneously, the phenomenon and the event that occurred are $\Gamma + \Phi$, and $\Gamma + \Phi = \Gamma (F \cdot \Sigma G_x + H \cdot \Sigma G_x) + \Phi (F \cdot \Sigma G_x + H \cdot \Sigma G_x)$. This is an expression that integrates phenomena and events with respect to the same object.

Furthermore, since Φ acts not only on multi-layered consciousness but also on pseudo-consciousness, if we denote the event involving consciousness as $\overline{\Phi_p}$ and the event involving pseudo-consciousness as $\underline{\Phi_i}$, Φ_{pi} becomes the total event.

Furthermore, the combined event (Φ_{pi}) by the consciousness ($\overline{\omega_p}$) and the pseudo-consciousness ($\underline{\omega_i}$) of the human mental multi-layer structure is

$$\Phi_{pi} = \overline{\Phi_p} + \underline{\Phi_i} = \overline{\omega_p} - (F - \Sigma G_x + H - \Sigma G_x) + \underline{\omega_i} - (F - \Sigma G_x + H - \Sigma G_x).$$

Here the last, $\Phi_{pi} = \overline{\Phi_p} + \underline{\Phi_i}$, is of particular importance and will appear only once thereafter.

However, such a formula does not have much meaning as such. From this point of view, we want you to understand the human meaning of the event (Φ). The mathematical-logical expression presented here is nothing more than the use of

symbols instead of sentences. It is just a matter of taste, a habit of the author, to express things in a mathematical-logical way.

With the emergence of the Many-Worlds Universe, the group of quantized variables becomes fairly well determined, but from that point onwards it becomes necessary to 'unfold' life activities towards activities within the four-dimensional world.

The [Original-Order Wave Universe] is a wave, whereas what creates the Many-Worlds Universe by means of quantized variable groups are 'multidimensional particles', or 'hyper-quantum', that have been thus transformed from the higher waves.

This corresponds fractally to the relationship between waves and particles in the four-dimensional world. By analogy with the four-dimensional world, the Many-Worlds Universe creates initially a large structure in the form of 'hyper-quantum', while the fine structure is created by the waves becoming 'hyper-quantum' on the spot. Naturally, everything

depends on a group of higher-order variables.

Then, a part of the Many-Worlds Universe is cut out, and finally the individual consciousness descends to the four-dimensional world as a fragment and 'operates' or 'unfolds' its life activity. At this time, the higher dimensional [Original-Order Wave Universe] is also cut out and projected onto the four-dimensional world. In this way, the cumulative life activity, in constant flux, constitutes the universe as a whole. We can only see the parts, but the universe 'operates' as a whole. When our consciousness is in fractal resonance with the cosmic consciousness, we can perceive the whole. This is how I feel and write about the whole of the universe.

■ **The observer and the observed from the point of view of the [Original-Order Wave Universe].**

In the deduction from the special theory of relativity, we clarified the difference between the

positions of the observing and the observed.

There, we dealt with the 'twin paradox' and resolved the paradox by separating the world into the observer and the observed, and at the same time explained the 'reconstruction of the Many-Worlds Universe'.

If we make an interpretation here with the intervention of consciousness, the consciousness of the observer (B) is divided into the observing (B) and the observed (C), and the observing (B) evaluates the observed (C) and observes the time delay of $[\Delta t]$. And the reverse is also true: the observing side (C) evaluates the observed side (B) and observes a time delay of $[\Delta t]$.

And an example of the separation of observer and observed that occurs in the world of minuscule structures as treated in the field of quantum mechanics can be seen in the 'double-slit' problem.

Consciousness has no form, so in principle, it is not possible to separate the consciousness of the [Original-Order Wave Universe] from cosmic consciousness.

The consciousness of the [Original-Order Wave Universe] may seem like a strange concept, but the consciousness of the [Original-Order Wave Universe] is part of cosmic consciousness. (See later.)

And "energy" as we know it in physics comes from the [Original-Order Wave Universe]. The details of this are extremely interesting, but we will discuss them in a different place.

And even in the [Original-Order Wave Universe], when it becomes the object of observation, it simultaneously reacts to the surrounding consciousness and transforms it into the consciousness of the transmitter of information.

■ **A world carved out by human consciousness.**

Humans are born with this cosmic consciousness within them.

The root of the universe is cosmic consciousness, and the duplicated and altered part of it is the [Original-Order Wave Universe]. And we human beings possess that cosmic consciousness as our individual consciousness.

And since consciousness operates prior to the day-to-day phenomena that we are familiar with and know, we must construct a 'new image of the universe' that can explain this. Naturally, this must be a worldview that incorporates the multi-layered structure of consciousness.

But, let us explain this from the standpoint of consciousness.

The world I live in is just one four-dimensional world cut out by my consciousness from the Many-Worlds Universe. And the world you live in is one four-dimensional world cut out by your consciousness from the Many-Worlds Universe. There are many different ways of cutting something out. Each one seems similar to the other, but in fact they differ from person to person. We often cut out in different ways to others. The cut may be wider or

narrower, or the incision may be slightly different. In this way, each person lives in a world that is quite different from the rest of the world. There is interference not only from the cut-out of individual consciousness, but also from other cut-outs. For better or worse, whenever there is interference from other consciousnesses other than your own individual consciousness, this cut out section is affected. There can even be an overlap between the different sections.

Furthermore, consciousness is clothed in a multi-dimensional body. If we were in a higher dimensional world, we would be clothed in a higher dimensional body and clothing. In a higher-dimensional, the Many-Worlds Universe, there is an appropriate body and clothing of consciousness. Human beings carry out their life activities in multiple layers.

If something is in a four-dimensional world, it has a four-dimensional body, which is furthermore clothed in a five-dimensional garment. Just as these bodies and garments are affected by the total

operation of these consciousnesses, the higher consciousnesses of the multi-layered structure are also affected by their bodies and garments.

In the four-dimensional world, each person lives in a unique world, depending on the size and type of the 'fractal connection' that binds the bottom layer of consciousness to the pseudo-consciousness that surrounds the body. This is known as the subconscious, but the definition of the subconscious is vague and does not always mean exactly the same thing as the pseudo-consciousness.

Individual consciousness exists as a part of the whole of cosmic consciousness, but it does not exist as a mass, it exists with varying energy density in the range of resonance, and it constitutes a fractal resonance body with its own resonance range and density distribution.

We live with this individual consciousness as a resonant body, receiving support from the higher consciousness of the hierarchy, with help from the same hierarchy, or helping and assisting each other.

Furthermore, the individual consciousness is

fractally connected to the pseudo-consciousness, which drives the physical body and is directly involved in the four-dimensional world. Because the pseudo-consciousness has the nature of consciousness even though it is pseudo-conscious, it can exert power over the four-dimensional world through the subconscious.

This is the explanation of the fractal structure of consciousness, awareness and pseudo-consciousness.

Moreover, we live in fractal resonance with the higher levels of consciousness. This means that we also receive assistance from intelligent life in the higher dimensions of the Many-Worlds Universe. And as we evolve, we will be able to provide support to other intelligent life.

For this reason, in order to be called a proper intelligent life form, we need to have a correct understanding of the relationship between the universe and consciousness, and a universal worldview, otherwise we are of limited use.

The existence of consciousness may seem difficult

to grasp, but it is very real.

If we deny the existence of such a cosmically resonant 'consciousness', if we assume that there is no such thing as a fractal structure, and if we take the modern view that 'consciousness exists as a neural network, as an action of the brain', then it is impossible to give it any credible or universal meaning.

It is partly true that consciousness is an action of nerves. That is because the neural network of the brain is the fractal structure of consciousness, in a fractal resonance relationship. But the neural network is not the essence of consciousness.

There is a modern interpretation that consciousness is "a function acquired during evolution".

In this interpretation, consciousness is only an appendage. It is no more than a hair's breadth away from AI (artificial intelligence). If this is the case, then human beings are dependent on such insubstantial and vague things. If that is the case, then human thoughts generated by consciousness are completely meaningless.

It is true that pseudo-consciousness is similar to AI and evolves through experience. But no matter how

far it goes, an AI is still an AI and can only make experiential decisions. In other words, there are no absolutes. It is a relative value.

The individual consciousness, which is connected to cosmic consciousness, has absoluteness and controls the pseudo-consciousness from the standpoint of the universe. Individual consciousness also evolves through experience and grows by giving back experience to the cosmic consciousness.

The truth is that human consciousness is

[EXISTENCE] as expressed in the Heart Sutra, "Eternal, Absolute, and Universal", but in this four-dimensional world, the body is

[NON-EXISTENCE] like a consumable item, and the body and the pseudo-consciousness associated with it are doing pioneering work at the bottom of the multi-layered structure that leads to the cosmic consciousness.

In addition, by becoming fractally resonant with the whole of this multi-layered structure, we are able to resonate with the cosmic consciousness, and while being aware of the whole, we are able to work with our individual consciousness and control our

pseudo-consciousness.

■Fractal structure of the Many-Worlds Universe.

The Many-World Universe, exists spanning from the fifth to the sixth dimension.

All the many universes have fractal structure, and they are born from the [Original-Order Wave Universe] in clusters like whirlpools generated in a strait.

The individual Many-Worlds form a group and are in a state of fractal resonance with each other, creating various Many-Worlds in relation to each other.

Incidentally, the four-dimensional world in which we live, which we are discussing now, is a fragmentary world cut out from one Many-Worlds Universe in a group of Many-Worlds Universes among many Many-Worlds Universes.

However, this can be classified as a Many-Worlds Universe because it is observed from our

four-dimensional world, but from the point of view of the inhabitants of the Many-World Universe, one Many-World Universe is a single world and it will not be felt to be a special multi-parallel world or Many World.

To continue the discussion in relation to the Many-Worlds world; it is directly connected to our four-dimensional world; it is the previous world from which ours was cut out from; it is also in a state of fractal resonance to ours; they are resonating with each other, and it is a very similar world.

In addition, the order (or world) created by individual consciousness is in fractal resonance and is connected to the higher hierarchical consciousness.

Individual consciousness is largely constrained by the physical body in order to stay in the physical body, and always operates below the lower levels of the higher hierarchical consciousness. Individual consciousness is always in fractal resonance with the higher hierarchical consciousness, symbolising the ideas of the higher hierarchical consciousness and translating them into the lower hierarchical

consciousness, expressing the higher ideas in the lower. In this way we continue to express the ideas of cosmic consciousness in this real world. This is the life activity of the universe.

If we know about cosmic consciousness, the hierarchical consciousness, and individual consciousness, we can explain the Creator, the soul, gods, spirits, the afterlife, and reincarnation, as they are called in religion. In this book, I have only affirmed the existence of the soul and gods as the life-activities of the universe, and for further details, please refer to my book "It was incomplete: The Heart Sutra" (Kembunsha Publishers)

While all consciousness confirms the fractal resonance, in the [Original-Order Wave Universe] each consciousness controls a group of higher variables in its own position. Each influences a world of many subtly different 'original phenomena', waiting to be phenomenised according to the decisions of consciousness. In practice, consciousness tries and tries, repeatedly symbolising and eventually expressing fractal

resonances in the four-dimensional world. As an event, it appears to change into a harmonious form.

If this world is interpreted as an event, even if the world of the 'original phenomenon' in fractal resonance is cut out as a four-dimensional world and turned into 'phenomena', it may appear to be similar when viewed as a 'phenomena', but when viewed as 'events' it may even appear to be a completely in contradiction. In other words, the same phenomenon can be interpreted differently by different people. This is already clear from the experience of the reader.

Even in such a case, however, it is in principle within fractal resonance.

For such movements of events that seemingly depart from fractal resonance, the strong controlling force of fractal resonance acts as a corrective force.

As an event, it could act as a force to create major environmental changes or destroy existing disharmonious relationships, and as an event, it could be a disrupting force, which would appear to be partially out of fractal resonance, but this could

be the result of the great force of fractal resonance. In this way the [Original-Order Wave Universe] 'unfolds' in a changing way.

In the Many-Worlds Universe, not only my world and yours, but also the past, present and future, are mixed, fractally resonant, interrelated, and have local time scales within them, and therefore must exist as original phenomena.

Since the universe is perceived by consciousness and unfolds in the world of consciousness, it is necessary to have the habit of thinking back to consciousness.

Fractal resonance, which has often been mentioned, is also originally an effect of consciousness, since it is a resonant relationship between consciousness and consciousness.

If we think about the actions of our consciousness in our daily life, i.e. the choices behind each event, it means that we are choosing the future of the universe.

These multiple futures are the accumulation of the

four and five-dimensional world. They are related to each other, and are continuously connected from near to far in terms of meaning, and the differences are physical, but there is continuity, especially in terms of 'events'. And as the present consciousness selects each event, it influences the future of the 5th dimension, and eventually the future of the 4th dimension, which is an extension of the present, will be narrowed down to a single point.

And whether we realise it or not, we are choosing and creating our own future every moment in our daily lives through the action of our consciousness. And at the same time, we are also choosing the future of humanity.

In other words, we often stand on the side of creating the four-dimensional world, determining the set of higher-order variables of the [Original-Order Wave Universe].

All the small decisions we make every day are connected to the creation of the universe, to the choices of the universe.

Since we are also conscious, we are deciding and choosing the future world by our consciousness, while deciding the detailed higher variables by our individual consciousness.

And the phenomena of the four-dimensional world, which we tend to think of as a certainty of existence in our daily experience, are in fact an aspect of the Many-Worlds Universe chosen by consciousness, that is originally only one solution among many solutions by the [Original-Order Wave Universe].

If we hasten to the conclusion, the universe 'unfolds' and 'operates' as the [Original-Order Wave Universe], in terms of higher-order wave functions, with all the higher-order variable groups undetermined. In other words, it 'unfolds' as a wave, oscillating very fluidly in the range of the undetermined higher-order variables.

Next, while determining the group of higher variables by the 'cosmic consciousness' which is the consciousness of the universe, the [Original-Order

Wave Universe] creates the Many-Worlds Universe, and by involving the 'individual consciousness of human beings' in it, it recreates the Many-Worlds Universe, and forms the Many-Worlds Universe while 'unfolding' it, and cuts out the four-dimensional world from it, and lives in it as their own world.

And the Many-Worlds Universe is a creature, not [EXISTENCE] . In addition, the four-dimensional world cut out from it is not [EXISTENCE] from the very start.

That said, there is no need to view this with a sense of sadness. The individual consciousness that lives there, together with each level of consciousness and the cosmic consciousness of the root, creates the universe and is the [EXISTENCE] that carries out life activities.

■Life activity and the universe.

In the beginning, there was the cosmic consciousness, from which all consciousnesses

arose, but originally the cosmic consciousness created its counterpart as a copy of itself. This principle applies to all consciousnesses.

And furthermore, the cosmic consciousness separated itself from the [Original-Order Wave Universe] and prepared it for the environment of life activity. Up to this point, it is [EXISTENCE] . And this [EXISTENCE], the [Original-Order Wave Universe], creates the Many-Worlds Universe. And from that point on, it becomes [NON-EXISTENCE] .

As we are nearing the end of the book, I think that the vocabulary has increased and the readers' understanding has deepened considerably.

As a concept, it can be said that initially there was only one cosmic consciousness, but first of all, it created many consciousnesses according to various functions and roles as a hierarchical consciousness and individual consciousness as its own alter ego, and at the same time it created a [Original-Order Wave Universe] in order to prepare the environment for developing its life activity.

When cosmic consciousness is separated by the division, at that very moment, the relation between each side is that of the observer and the observed.

The cosmic consciousness, the hierarchical consciousness, the individual consciousness and the [Original-Order Wave Universe] hold the positions of both observers and observed.

Moreover, there is always an attraction between the observer and the observed, and this original relationship is always maintained.

This is where life energy arises from, and the activity of both trying to become one. There, they do not just become one, but in the process, by their own potential and ability, that is to say, by the power of the Omniscient, they create a story, which includes the process of becoming one again. That is the life activity of the universe.

Just as a fertilized egg divides to form a whole body, many alter egos are born and the [Original-Order Wave Universe] creates the environment in which the alter egos operate and support them. In this way, the [Original-Order Wave Universe] creates the environment and

supports the alter of the cosmic consciousness. The [Original-Order Wave Universe] creates different environments for life. As a Many-Worlds Universe, it creates various worlds in order to express various diversities. There is almost no limit to it. It tries to create everything that consciousness wants. This is where the creative freedom of consciousness comes from.

This is the system of the universe.

The universe is a system, and as long as it is a system, there is a purpose, and the system progresses and develops towards that purpose. The system is controlled towards the purpose, and the control mechanism is the feedback mechanism. The purpose is too deep to be described in a few words, but we venture to say that "the purpose is to develop life activity".

It means that there are multiple feedback mechanisms in the whole system of the universe, as well as in the partial systems within it, and that by living in accordance with this feedback, we are controlled in the right direction (the direction in which the life activity of the universe proceeds).

This feedback in life activity is the power of the returning of the alter to the original one.

I stated that "the universe is a system". This is an important statement. As long as the universe is a system, there is a feedback mechanism. The feedback mechanism is the ability to detect 'small errors' and correct the system in the right direction. I would like to apply it finally to humanity and to the individual.

By the "small errors" of the system, we mean the 'disharmonies' and 'mistakes' that we experience in our destiny. It means that through the experience of these 'disharmonies' and 'errors' we can position them, see the direction of correction and correct our destiny by paying more attention to the vectors we emit than to the words and deeds we have done.

What we need to know is the truth that as long as human nature is individual consciousness and cosmic consciousness is the universe controlling the system, there will always be 'small errors', which are necessary for the regular functioning of the system. But there is a difference, depending on human effort, between making a small error and correcting

it, or making a large error and making the correction a painful process.

In other words, 'disharmony' and 'mistakes' are a necessary part of life's activities and are not at all shameful in themselves. What is shameful is the failure to recognise them correctly and to use them as feedback in life.

I will leave the detailed discussion from this point of view to my books "Human Redo" (Kembunsha Publishers) and "It was incomplete: The Heart Sutra" (Kembunsha Publishers).

After all, there is a direct connection between human life and the 'Many-Worlds Universe Genesis theory' as the physics of the new age.

When we try to dig deep into ourselves, when we think about the future of humanity and aliens, we must not lose this perspective that "the universe is a system and that feedback exists".

Now, consciousness as a unit of feedback here can mean not only individual consciousness, but also the

consciousness of a group to which one belongs, a hierarchical consciousness of a group that integrates several individual consciousnesses.

Of course, if you are in fractal resonance, there is a rough distinction between these consciousnesses, but there is no clear boundary. If you go outside the center of fractal resonance, that is, if you are also given the freedom to go outside, then things are complicated.

But, as mentioned above, truth, no matter how far from the centre, is always in fractal resonance. For the universe itself is a fractal resonance. Again, it is always in a feedback system, and the further off-centre it is, the stronger the feedback.

A single feedback system can be simplified in this way, but in fact a system is made up of multiple systems, with multiple unit systems coming together, and even larger systems spinning off smaller systems in multiple directions, each feeding back on the system it contains, to its own extent, and finally the feedback system extends to the universe

as a whole. In other words, feedback exists according to the stage of consciousness in the multi-layered structure, and even according to the 'field of activity of consciousness'.

If a small system moves towards failure, the outer system will act to stop the inner system from failing, if it is in accordance with the purpose of the universe that it does not fail. Then, from the point of view of this inner system, it feels that it has been stopped from failing by an outer force.

Or, conversely, an outside force may not prevent a small system from failing, if the failure is meaningful. From the point of view of the small system at this time, it may feel that it has been failed by an outside force. But in this case, the collapse has cosmic significance.

However, from the point of view of the four-dimensional world, it sometimes takes hundreds of years before the result of the control by the feedback system becomes visible, and in the present world the feedback system is loosely

applied.

When life activity is related to our destiny, this force of feedback becomes a 'force of destiny' and moves 'events' greatly.

And man, living in the universe, is always controlled day by day by this feedback force of the 'force of destiny'. So, if they can control their individual consciousness and maintain fractal resonance, they will have the force of destiny on their side and they will lead a harmonious life.

Thus, although the feedback system is originally a concept of the four-dimensional world, its meaning is so universal that it can be used in the Many-Worlds Universe where the meaning of the time axis changes, in the [Original-Order Wave Universe] and in the universe as a whole.

This is because consciousnesses are fractally resonant with each other, so that it is inevitably a pair of yin and yang, subjective and objective, seeing and being seen.

This is the basis of the exchange between consciousness and consciousness.

By the way, individual consciousness is not fixed but fluid, although the general framework of one's normal self is fixed. In fractal resonance, it is basically possible to reach any hierarchy of consciousness, and even the cosmic consciousness. From the standpoint of the hierarchical consciousness that one has reached, or from the standpoint of the person next to them, the person with an evolved consciousness is the one who can unconsciously side with the other person from the standpoint of fractal resonance. And can objectively be on their own side. They are able to exchange their true consciousness.

A person who can reach cosmic consciousness is a person who grasps their own reality from the standpoint of the life activity of the universe and who can lead humanity and create the universe from the standpoint of the cosmic consciousness and the [Original-Order Wave Universe] from the standpoint of the life activity of the universe.

In this way, the structure of consciousness always consists of a transmitter and a receiver of

information, taking turns in their roles and participating in the life activity of the universe with a temporary range of activity. One consciousness is never separate from the other, it is always in a fractal structure and can be connected to any consciousness by fractal resonance.

■ Design philosophy for an efficient universe.

The universe continues to receive the 'idea' and 'policy' of the cosmic consciousness via fractal resonance.

Not only the cosmic consciousness, but also the hierarchical consciousness and the individual consciousness understand the 'idea' and the 'policy' within the fractal resonance, and make the 'original phenomenon'. In other words, they create events. And along with these events, 'original phenomena' and the 'phenomena' are created. Cosmic consciousness, the hierarchical consciousness and the individual consciousness make events by controlling the group of higher variables of their

own, and make the 'original phenomena' and the 'phenomena'.

From the discussion so far, we can infer that the design concept of the universe is that phenomena are ultimately perceived by consciousness, so it seems that only the part of the universe in which consciousness is directly involved is phenomenalized, that is, only the visible part is phenomenalized, and the other details are left in the [Original-Order Wave Universe], even omitting the original phenomenalization.

It can be said that the rough structure of the universe has already been created, because it has already been phenomenalized in the world of the extreme structure, that is treated in classical physics, or more precisely, in special and general relativity.

However, at least in the world of minuscule structures, such as those treated in quantum mechanics, there is still much incompleteness in which the group of higher-order variables is not involved in the whole.

For this reason, parts of the universe remain as a microstructure for as much as possible, in the [Original-Order Wave Universe], and the higher variable groups remain undetermined, ... and the universe continues to exist.

At that stage, the higher variables and the pre-phenomena are prepared for the next creation. And finally, there, consciousness acts on the higher variables, and from the 'pre-phenomenon', the 'original phenomenon' and then the 'phenomenon' are born.

In other words, as long as consciousness is not involved, the universe 'unfolds' in a pre-phenomenal way, without becoming a phenomenon, and only where consciousness is involved does it seem to prioritise the meaning of 'events' rather than 'phenomena' in order to ensure that there is no contradiction in the perception of consciousness.

It appears to be a very efficient design that prioritizes consciousness, which states: "Initially create the macrostructure of the universe, and then

the unseen microstructure can be created only when it is so required."

When the consciousness is creating the microstructure, it is the present and the universe is filled with the present. Consciousness builds up the microstructure to create the macrostructure, and then adds the microstructure of the present like glue to the microstructure of the past to build the macrostructure.

■ **The meaning of life in a Many-Worlds Universe.**

Using the consciousness we have been given, we are living in a four-dimensional world, a section of the Many-World Universe, in charge of our own work, improving it day by day. Every decision we make, every day, changes this four-dimensional world little by little.

We are in the middle of our life activity. We are living according to the principles of cosmic

consciousness, creating a Many-Worlds Universe, doing what we want and what we have been given to do as our mission.

When we think of this, there is something we must never forget. That's why I'm writing this at the end.

It seems to me that some traps are set in the middle of the 'unfolding' of life activity. It is only by successfully overcoming them that the life activity is fulfilled. Often it behaves as if it is obstructing the life activity. We have to be able to see through them, to avoid the obstacles, or to fight against them actively, based on universal values. Nothing is a wasted experience.

These seemingly unnecessary obstacles, when viewed as a feedback system, can be very effective. The constant exposure to these apparent traps and obstacles becomes a small experience that helps us to cope with the big events of the future. In other words, small experiences build up immunity, making the system safer and strengthening the feedback system of the universe.

We are born from cosmic consciousness, and we are

in a great cycle of experience as individual consciousness in the four-dimensional world at the forefront of the Many-Worlds Universe, and then we return to cosmic consciousness. This is the most essential meaning of 'returning to the universe'.

In the feedback system of the universe, human beings develop their life activities while experiencing various 'events' in their lives. In the beginning, we wield our own righteousness in the dualism of good and evil and create relative values, but eventually, through the process of overcoming trials and obstacles, we eventually understand the whole and deepen our understanding of the universe.

Through experience, we come to know the correct view of the world, and then we look at ourselves and develop the ability to position ourselves correctly in the universe, this is the ability of self-positioning. This is how we finally reach a fractal resonance with the universe. In this way, the values held by human beings are consolidated into a monism and that is true justice.

This is the way of life for man. Naturally, the study of physics is also part of this trend.

Don't be afraid of the obstacles that you will encounter along the way. What appears to be an obstacle is a necessary experience.

Once you have mastered fractal resonance, you will always be able to overcome what appears to be an obstacle. It is a necessary experience, because you are experiencing part of the feedback system of the universe. In other words, a world without any obstacles is not an ideal world.

To do this, we must not fall into self-righteousness or victimisation, but always seek harmony. In other words, we should be in tune with and seek guidance from the hierarchical consciousness that guides and controls the individual consciousness at the upper levels, and strive to maintain a state of fractal resonance.

The Many-Worlds Universe evolves as a whole, creating a signpost of experience for those who come after us, or for the intelligent life that lives in

the Many-Worlds Universe.

So, we human beings, or to put it more generally, we who are living in a four-dimensional world, and intelligent beings who are aware of their consciousness, will eventually return to the Many-Worlds Universe, to the [Original-Order Wave Universe], and to cosmic consciousness. - the original habitat of life.

■ **Second order vectors and the realistic treatment of them.**

In addition to talking about the grandiose nature of the universe, we would like to take a moment here to focus on our feet and the down-to-earth nature of the things in question.

Consciousness was a multi-layered structure, and the universe unfolded through the various life activities at each stage. The universe is a system, in which feedback is at work. This basic understanding is very important.

Here we are describing our earthly human life form, but human life forms are so diverse, and there are so many different forms of life in the universe, that they cannot all be treated in the same way as we

earthly humans. Knowing this, it is necessary to keep in mind that this book is mainly a description of terrestrial man. Let's discuss it further.

According to this basic understanding, we can say the following.

As each individual consciousness has a body as a container and a pseudo-consciousness as a vector transformer, each hierarchical consciousness has a container (body) and a vector transformer (pseudo-consciousness) corresponding to its consciousness.

Life proceeds by means of consciousness, its container and the thought energy generated by the vector converter.

The body and the pseudo-consciousness wear out and eventually come to an end, but the hierarchical consciousness is almost permanent. Since this hierarchical consciousness is the realm of the so-called 'gods', the description here is limited to merely indicating its existence.

Here we have to say a few additional words about the vectors that we human beings of the earth

generate.

The individual consciousness and the pseudo-consciousness generate various thought energies in their life. These thought energies are called vectors, and if they are gathered in large numbers, they generate a vector resonance, which becomes a great force. But this has nothing to do with fractal resonance, it is just a force of partial forces.

Of course, it is possible to evolve this vector resonance into a fractal resonance. And to do so is the task that now lies before humanity.

There are various discordant vector resonances all around us, conflicting with each other and destabilising the future of our planet.

This thought energy of vectors and vector resonances is a secondary product of life activity and will eventually disappear. Therefore, the hierarchical consciousness in leadership positions often uses it as a material for life activity and part of it as a material for feedback.

It controls the human being by applying feedback, so that the secondary products can be sublimated into vectors, so that the life activity can progress.

This process is closely related to our lives, and everything that happens in front of us, the 'events', is a process of sublimation of this vector. If we look at it short-sightedly, it may look like there is a law to it, or it may look like fate, or it may even look like a consequence of original sin.

However, these are all secondary vectors that are in the process of disappearing, and even if we find a law in them, it is not the essence and is of little significance.

We are looking at the process of the sublimation of these vectors, and if we do not get caught up in this process, but see everything as a 'disappearing form', surrender our mind to the hierarchical consciousness, and live always in the fractal resonance, we can lead a bright life with less hardship.

Having now touched upon the immediate problem of human life, I would now like to draw some conclusions about the most essential nature of man and the universe.

■The universe unfolds within consciousness.

Since man consists of consciousness, when consciousness wishes something via fractal resonance, the desired event is generated as a source phenomenon by moving a group of higher variables. Consciousness is capable of realising whatever it truly wishes.

If you have read this far, you may have come to understand that consciousness is the true 'existence', and that what 'unfolds' in consciousness is the Many-Worlds Universe, this four-dimensional world. This leads us to the important conclusion of this book.

Looking back again for confirmation, let us build our argument towards this conclusion.

Stated in different words, the cosmic consciousness and the alter-consciousness are [EXISTENCE] , because in the beginning there was only cosmic consciousness in this universe. And in order to create an environment for consciousness to operate,

it first created the [Original-Order Wave Universe] as its alter ego. Since the [Original-Order Wave Universe] is the alter ego of cosmic consciousness, it is [EXISTENCE] up to this point.

Then the cosmic consciousness as [EXISTENCE] created [NON-EXISTENCE] as creation and as an environment in which to develop its own activities. This is the Many-Worlds Universe. Time, space, original phenomena, phenomena and events are all included in this. This is the meaning of 'Many-Worlds Universe Genesis theory'.

Let us now show how the creation of the Many-Worlds Universe and its regulation (control) was accomplished.

Consciousness, through the higher variables, worked on the [Original-Order Wave Universe] and created the Many-Worlds Universe as it desired. And it continues to do just that.

To sum up.

Consciousness acts on the [Original-Order Wave Universe] through the higher variables to create the Many-Worlds Universe. Once created, the Many-Worlds Universe can be controlled directly

by consciousness through the higher variables.
However, when it comes to creation, it continues to act on the [Original-Order Wave Universe] through the higher variables to create the Many-Worlds Universe.

Because all consciousnesses share the higher variables, all consciousnesses can share the Many-Worlds Universe.

In other words, consciousness continues to generate the Many-World Universe through the [Original-Order Wave Universe], while consciousness can also work directly on the Many-Worlds Universe without the [Original-Order Wave Universe] This is the reason for the independence of general relativity and quantum mechanics.

When consciousness demands it, higher variables are determined accordingly, and the Many-Worlds Universe can be created or modified at any time, so that the past can be recreated and the future can be simulated. So it is natural to say that "time and space are products of consciousness".

Now, please remember that consciousness is
[EXISTENCE] and the Many-Worlds Universe is
[NON-EXISTENCE] .

When we recreate the past and simulate the future,
we do not all recreate or simulate exactly the same
situation. It doesn't have to be the same. It would be
meaningless if it were the same.

Since this universe is a [NON-EXISTENT]
Many-Worlds Universe, there are many similar
'original events' adjacent to the 'events'. And this is
why it is possible to modify an 'event' over and over
again.

It's hard to believe, but let's rephrase the situation.
It is said that there are no "what ifs" in history, but
the truth is that history is a free world that can be
recreated and experienced repeatedly in terms of
meaning.

What can be said from the design concept of the
universe by the underlying [EXISTENCE] , the
cosmic consciousness, is that we repeatedly
experience similar events and further evolve them to

become more complete as a Many-Worlds Universe. The universe is indeed a system with a purpose.

In other words, if we confine ourselves to the life activity we experience, consciousness is able to repeat the experience of life. Life, for us, at the bottom of the structure of consciousness, is the life activity of accumulating and constructing a better 'present' by repeating our life there, and simulating the future.

As for the future, it can never be separated from the past, but the general flow is set. From the past, via the present, there is a continuous connection to the future, which is cut out as the present, coloured, fine-tuned, detailed, and sometimes corrected by going back to the past, in order to improve the completeness of life as a whole.

I have described the situation and case for human beings, but this is true for all levels of consciousness.

This here is the [first conclusion].

Since we have already fully explained the structure of consciousness and the structure of the universe, let us give a more direct explanation of the universe

and consciousness.

Not only cosmic consciousness, but each hierarchical consciousness and each individual consciousness are closely related to all the higher variables, and even the pseudo-consciousness is related to some of them.

All consciousnesses share a set of higher variables and see the world through them.

All consciousnesses experience the world through a common set of higher variables, which means that they have a common experience.

In other words, the world that consciousness perceives through the higher variable groups is the Many-Worlds Universe, of which the four-dimensional universe is a part. Original phenomena, phenomena and events are all experienced through the higher variable groups. The world through the higher variables is all

[NON-EXISTENCE] . We can say that it is an illusion. If we know that it is an illusion and

[NON-EXISTENCE] , then on the contrary, we will be able to realize that our individual consciousness as our essence is [EXISTENCE] .

The practice that leads to awakening is also the

process of separating the [EXISTENCE] from the [NON-EXISTENCE] .

The universe unfolds in consciousness.

Since cosmic consciousness is essentially the same thing as individual consciousness, we can say that the universe unfolds in individual consciousness.

"The universe unfolds in consciousness", is, therefore, a phrase of the most elemental significance. But please compare this with the following [second conclusion]. They are two very different understandings, and should not be confused. (Figure 15)

I repeat, the cosmic consciousness, the consciousness which originally split off from cosmic consciousness, and the [Original-Order Wave Universe] which originally split off from cosmic consciousness are [EXISTENCE] , and the rest are [NON-EXISTENCE] . Of course, only [EXISTENCE] is the essence. This is what I have been insisting from the beginning. The Many-Worlds Universe and the time, space, events and phenomena that constitute it are [NON-EXISTENCE] .

The [second conclusion], which must not be confused with the first, is also given below. Events and phenomena unfold in a world captured by the cognitive action in consciousness: This is easily understood by everyone. Yet this is not real, because the world we perceive is the world we experience through our five senses, and this is not real, because we are looking at a shadow of the actual world. Therefore, the view that 'the universe exists inside consciousness', rather than 'consciousness exists throughout the universe', is also valid. But since that would directly contradict [the first conclusion], this cannot be a view that would indicate the truth.

This is just saying that our perception is incomplete, that we are always looking at a shadow and therefore it is not our essence. The question then arises, "Then what is the source of the shadow?" The first conclusion is that the source of the shadow is not an entity, but a non-existent entity.

I do not wish to take this up now and discuss it further. It is advisable to take your time and ponder it over. If you think about it in comparison with

[the first conclusion], you should be able to understand the particular point. Once you understand that point, you will have grasped the difference.

This [second conclusion] is one of the processes to deepen our understanding of the essence, and we should positively regard it as one of the steps to get closer to comprehending the essence.

There are already a lot of ideas like this [second conclusion] in public literature, but we need to understand that it is fundamentally different from my [first conclusion] and keep that point in check so that there are no misunderstandings.

However, the time has come for us to raise these topics in discussion in this way. There is no doubt that the world is moving towards the truth. And this should please us all.

It is very difficult to reach the first conclusion from the beginning, but we can reach the second conclusion by starting from the second conclusion and deepening our understanding.

In fact, that is the order in which this book has been written and explored.

And of course, only the meaning of the [first conclusion] is what the author wants to convey as the most essential thing to understand.

The [Original-Order Wave Universe] creates the environment for life. But without the involvement of consciousness and the movement of the higher variables, the Many-Worlds Universe could not be perceived. Original phenomenon cannot be created in the Many-Worlds Universe.

In other words, only when consciousness is involved, the original phenomenon is generated from the pre-phenomenon.

Without the involvement of consciousness, the higher variables do not move, there would be no practical Many-Worlds Universe, no time, no space, no original phenomenon, no phenomena, no events.

We have already made it clear that consciousness, at every stage of multi-layered consciousness from cosmic consciousness to individual consciousness, is in resonance with the [Original-Order Wave

Universe]. And consciousness creates the Many-Worlds Universe by controlling the higher variables of the [Original-Order Wave Universe]. In other words, consciousness is the essence. When I am aware that consciousness is the essence, and I look at this world, the universe is the world that I created, and my consciousness is all there is.

This means that I am one with the cosmic consciousness in fractal resonance, that the world exists only where my consciousness intervenes, and that the world does not exist where my consciousness does not intervene.

In other words, the universe exists in my consciousness. This is the conclusion of this book.

● **What can be drawn from the conclusions.**

This conclusion immediately leads to the following; It is consciousness that creates the world.

Consciousness switches on the higher variables and determines the constants. The vector 'thought', which is a function of consciousness, moves the

higher variables and creates the world. It is the same with the pseudo-consciousness, and especially in the four-dimensional world, the action of the pseudo-consciousness is the main one, and the universe is designed so that the individual consciousness supports it by the demand of the pseudo-consciousness.

When you can embody the idea that individual consciousness is your true nature and that individual consciousness is connected to cosmic consciousness, you have awakened to it. I have achieved this through practice, under the guidance of the stages of consciousness.

When you know that your individual consciousness is your true nature by awakening, you can live in conformity with the philosophy of the universe. You will be able to communicate with the cosmic consciousness and understand the design of the universe. Rather, it is you, through your cosmic consciousness, who designs and creates the universe. You are the driving force of life.

If you preach the ultimate truth in this way, the

situation will be extremely confusing if the person receiving it is not in a position to receive it. In this sense, what I am saying is in a way very dangerous. If we mistake our cosmic consciousness self for this physical self as it is, this will be the ultimate in hypocrisy. This would be a perilously out of control situation.

Even if they do not go as far as that, people who routinely think that their thoughts are always in the right, are in fact giving priority to their pseudo-consciousness, and consequently veer towards this very danger.

When such a person asserts their cosmic self, their environment is immediately disturbed.

Therefore, the assertions that 'man is God' or that 'the essence of man is cosmic consciousness' are true in some respects, but in a situation where there is no distinction between pseudo-consciousness and individual consciousness, they lead to a great misunderstanding and only make man arrogant. It is necessary to make clear the difference between the pseudo-consciousness and the individual

consciousness, to limit the conditions, and to explain them in order.

In other words, we must limit the conditions for man to become God and explain the methodology in a careful and sequential manner. If there is no methodology, it will only make man arrogant.

Furthermore, there is a condition for those who preach it: if the preacher does not have the correct knowledge of the Way, they will not be able to awaken, and moreover, their teachings will be unsuccessful.

Therefore, even now, only a very small number of people are able to pass through this narrow gate.

Man is not going to become a god. In other words, they do not become a cosmic consciousness.

In order to reach the awakening, we have to practice separating the pseudo-consciousness from the individual consciousness.

Specifically, it means to be aware of $[\overline{\Phi_p} + \underline{\Phi_i}]$ and to separate $\overline{\Phi_p}$ and $\underline{\Phi_i}$.

In order to clearly separate the events of pseudo-consciousness ($\underline{\Phi_i}$) from the events of

multi-layered consciousness ($\overline{\Phi p}$), it is necessary to make up one's mind and resolve to change oneself from the ground up. When you are dealing with various thoughts and vectors in your mind, no matter how good they seem, you will always be lost.

On the other hand, those who do not reach awakening misunderstand the pseudo-consciousness as themselves. The vectors of thought by the pseudo-consciousness is separated from the universe, and is thus called a separation vector. If this controls a group of higher-order variables for individual purposes, it would not be in harmony with the universe. Vector resonances that are separated from the universe occur here and there, creating worlds that are not in harmony with the universe.

Nevertheless, because the universe has a feedback function, these will eventually be eliminated. To be eliminated is suffering.

This is the moment of choice between being individual consciousness-centred human beings who

have descended from cosmic consciousness and being pseudo-consciousness-centred human beings who have evolved from animals, but the choice is a free one. This is the choice between God and man.

So, in order to avoid being weeded out, we should give ourselves feedback and return to our original course. I have summarised this method as Jimei Gyo, but I will leave the details to my books "Human Redo" (Kembunsha Publishing) and "It was incomplete: The Heart Sutra" (Kembunsha Publishing).

Therefore, without fractal resonance, without feedback; if we leave the pseudo-consciousness to the vectors it emits, then life will not progress, and the world will suddenly become disorderly and eventually collapse.

Therefore, in order to prevent the collapse, it is necessary to make the pseudo-consciousness resonate with the individual consciousness, so that the pseudo-consciousness can be led to fractal resonance and the world can be created in harmony with the universe.

Now the question is "How can we lead the pseudo-consciousness to fractal resonance?" The answer is to make a habit of matching the vector of the pseudo-consciousness to the individual consciousness.

We can, by this habit, control the pseudo-consciousness and lead it to fractal resonance with the individual consciousness. It is the fractal resonance with the 'idea' and 'policy' of the stages of consciousness and the cosmic consciousness that creates the world.

In order to do this, we have to make it a habit to keep generating fractal resonance.

This means praying a 'prayer' that generates fractal resonance.

It is a prayer for the fulfilment of the life activity of the universe.

And while prayer is an absolute requirement, we need to know that prayer alone does not always give us the feedback we need.

The method I have developed allows you to apply the correct feedback and to make a habit of

self-reflection so that you can take shortcuts. I have been researching this method and I don't know of any other method that works quite like the one I have demonstrated.

Prayers that generate fractal resonances, which greatly move the higher variables, alter destiny towards the right direction, and by applying further feedback, the life activity of the universe will suffer less and progress more.

In the absence of self-initiated feedback, one has to rely on external feedback, which is painful and circuitous.

Each of us participates in the life activities of the universe with individual consciousness as its essence, guiding pseudo-consciousness.

The aim of this book was to theorise about the relevance of human consciousness in a field related to physics, and to situate it within the whole, and I believe that the author has managed to achieve this aim.

In this book, I have presented the main framework

of consciousness and the universe, but I will leave the details of further developments to other books.

If you are interested in "the life of a human being based on the knowledge of consciousness as [EXISTENCE] ", please read my books "It was incomplete: The Heart Sutra" (Kembunsha Publishing) and "Human Redo" (Kembunsha Publishing).

It presents a multi-layered view of the world in which human beings and their consciousness live, and a more in-depth exploration of life in the universe.

In the future, I would like to design new experiments to demonstrate the 'Many-Worlds Universe Genesis theory' shown here, and to select new themes based on these new findings.

End

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□ Conclusion

■ The world is a virtual reality.

As this is the last section, I would like to talk about it in a thoroughly modern metaphor.

The metaphor of the four-dimensional world is that "this world is a 4D display", and the audience sees this 4D display by wearing 4D glasses.

The image on the display is just a distribution of points of light created by a design program. There is no substance to the objects that we perceive as images. It is only visible. What we see is a point of light on the display, and what we see as an object is an illusion.

The image consists of a very large structure and a very small structure, with the near view detailed and the far view omitted. Only the necessary details are shown. If you try to see a part of the image close-up, it will be reconstructed in detail.

In addition, the audience sees the images on the display and constructs an image, which the audience

enters and experiences a story with them.

The story that unfolds on the display is the story that is being experienced by the brain of each individual spectator.

Each spectator accepts the story unfolding on the display as his or her own pseudo-experience with his or her own eyes and ears. People accept and interpret it through their five senses.

At this time, the 4D glasses are a metaphor for the cognitive functions of the cerebrum, including the five senses, the display is the four-dimensional world, and the story is the 'event'.

If we extend the dimension from the four-dimensional world to the six-dimensional world, then the many-worlds universe is also a multi-dimensional display, and we see the many-worlds universe through the multi-dimensional glasses of consciousness and pseudo-consciousness.

By switching the channel of the display, we can instantly show another world anywhere, anytime

and anything, and our consciousness can see and experience it.

And there is more than one display. If there are multiple channels and corresponding displays, multiple worlds can be projected. Indeed, this is the very essence of the Many-Worlds Universe itself.

Thus, if we know that there is no 'substance' in the world shown on the display, then we will want to know where the 'substance' is and what is the truth. From there it is necessary to train oneself to reach the **【first conclusion】** .

Since the reader already knows this, the only thing left for them to do is to learn to understand it experientially, and then they will be awakened. I urge you to do this.

We must not say that man is a god. Only after a thorough detachment of the pseudo-consciousness can we say that.

The 4D display and the 4D glasses with which we observe it are so well designed that we feel as if they are actually there.

The world shown on the 4D display is, in today's

terms, a virtual reality. The soul of the observer is [EXISTENCE], the body is an avatar and the pseudo-consciousness is an AI. Here, of course, only the soul is real, everything else is non-existent.

In other words, we are constantly being deceived by the world shown on this display and by the pseudo-consciousness of the body that is experiencing it. The body, the pseudo-consciousness attached to the body, and the vector converter are so meticulously created that we are fooled into thinking that they are real. But that's a good thing. There is no need to be disappointed by the fact that it is an illusion.

It is the same as being immersed in a film while watching it. No one feels they have been cheated when they watch a film. Even though we all know that films are not real, we still go out of our way to watch them, to enjoy them, to be moved, to shed tears and to learn something from them. We learn about people by experiencing various 'events'. In other words, the display is not true, but what we learn from it is true.

We should know that our consciousness is [EXISTENCE] and that the Many-Worlds Universe and the four-dimensional world are the [NON-EXISTENCE] of creation, and we should enjoy it sincerely and learn the truth from it.

■The future will see the development of a new field of physics that incorporates consciousness.

I think that many aspiring physicists have more than just a desire to know the laws of the universe.

They want to know, as I do, where we come from and where we are going. I don't think it's possible to get away from those big themes.

But while physics has provided us with some equations of the universe, it has been completely powerless to explain the existence of consciousness. That is why it is so important and inevitable to show the relationship between the universe and human beings.

The image of the universe that I have developed

over the years has now been brought together in the 'Many-Worlds Universe Genesis theory'.

I hope that there will be many people who inherit and develop the theory, because it is too vast for me to handle alone.

Physics cannot exist independently of philosophy by its very nature, so it will always come to a standstill if it ignores human beings. And in order to develop further in this field, I sincerely hope that it will gradually become clear that "physics cannot exist if it ignores the human beings who study it".

Physics, which we thought of as the laws of the world outside ourselves, can now be expected to develop in the following new way because of the close relationship it has created with the world of consciousness, which we thought of as being a world inside of ourselves.

I have tried to make this book as clear as possible, to make it understandable to anyone who is interested, without losing its logic.

This is the way I have lived my life, and it has been a task to give logic to my experience.

Indeed, I can say that I have lived my whole life on the basis of the cosmology that I have described here.

As this picture of the universe is consistent with my own, I thought it necessary to present it to the world. I have written this book in a thorough and concise way in the hope that those around me who are strongly interested in physics and those who are interested in the universe regardless of physics, will understand it.

If you would like to know more about consciousness, please read my book "It was incomplete: The Heart Sutra" (Kembunsha Publishing). The correspondence between the world view and the Heart Sutra is shown in (Figure 16) and (Figure 17).

■ Why I didn't mention electromagnetism.

The 'Many-Worlds Universe Genesis theory' holds

in fact an unexpected development in electromagnetism. The Lorentz transformation, the first topic of this book, actually originated from electromagnetism.

In this book, I did not venture to mention electromagnetism for the following two reasons.

The first is that in the history of the science of physics originating on Earth, there are still some inconsistencies because the field of electromagnetism developed at a stage when electrons with a negative charge were still as yet undiscovered.

Historically, electric currents were assumed to be the movement of a positive charge, and the direction of movement of that positive charge was assumed to be the direction of the current. However, the discovery of negatively-charged electrons, and the fact that currents are predominantly the flow of negatively-charged electrons, meant that the direction of current was the opposite of that previously assumed.

This is why electromagnetism was developed with the flow of current and the flow of electrons in

opposite directions.

For a long time, I thought that there was no problem with this historical approach, but recently, when I have examined it in principle, I have come across some inconsistencies. I will return to this subject at a later date when I have had a chance to examine it further.

Secondly, because I knew that if the above problems were to be resolved, it would lead to the emergence of some new and serious facts. There is a very deep truth to be found in this particular area of research, and because it is so serious, I posit that we continue our research and reveal more of the truth before furthering the discussion.

If the opportunity arises, and the time permits it, I will publish it after due examination.

■For the benefit of future generations.

It has been a major goal of mine to connect the problem of consciousness directly to physics. Somehow I have managed to get this far and I

believe that the rest will fall into place. It is up to the next generation to develop it.

I want you to know that any study that ignores consciousness is ultimately untenable. In other words, no study can be made without the consideration of human beings.

At last, the time has come for physics to deal with the problem of consciousness. I believe that this is the next step in the development of physics.

There is one last thing I want to mention.

Humans can be knowledgeable about anything if they are willing to learn. If we seek it strongly enough, we will be led on the path to it.

If we try to know the universe and cosmic consciousness, we will find that there is always a way to learn the truth about it, and that the universe and cosmic consciousness, which need to be understood, are trying to make the truth known to us.

So if you reject ideas, you will simply never know.

If you resolve yourself to discover knowledge, if you strive for it, you will always be presented with a

way to discover it, via fractal resonance. This is also the path of return to the roots of the universe.

And by following the given path in fractal resonance, we will eventually discover the fractal structure of the universe, and from there we can climb the stairs of the symbolic dimensions to reach true knowledge.

However, that is by no means an easy task. There will be many failures. But slowly and gradually we can get closer to the truth. Through the efforts of numerous people, over time we will move ever closer to the truth.

Consciousness, or in other words, conscious human beings, are entities of such immensity.