

# Five Dimension Theory

Vol.3 Principle of recognition

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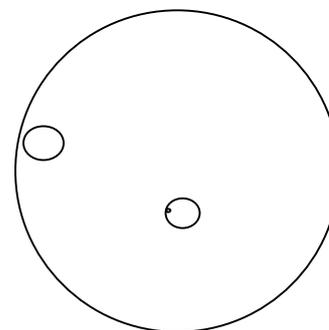
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## Introduction

We always recognize two brains at the same time.  
They are brain in head and brain as large as universe.  
As every existence is result of recognition,  
it is inner of brain.

Naturally universe is included in brain.  
It is called brain as large as Universe.



This situation can not be explained by physical definition in which universe is composed of addition of matter / particle (Small spaces).

Physics needs the definition in which universe is included in a point.

It means fractal is needed in physics.

As physics that doesn't include fractal can't express the world correctly, it is apparently wrong. Therefore it should be corrected.

One reason to have written "Five Dimension Theory" is above.

Then, by continuing the research, it became clear continuously that classical laws of physics are logic of recognition process.

These rules / principles are explained in this book.

I truly hope that publication of this book leads to improvement of mankind and settlement of various problems.

Oct 2009

## **Chapter 1 Reprint of “Five Dimension Theory Vol.2 Basic structure of recognition”**

Fundamentals of Five Dimension were explained in “Five Dimension Theory Vol.2”. As these contents are fundamentals of Five Dimension in general, these are reprinted here as chapter 1.

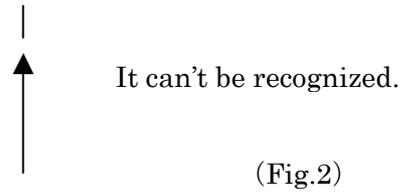
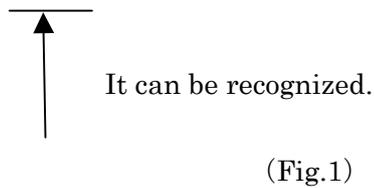
Those who already know these contents do not mind skipping this chapter.

## Basic structure of Five Dimension

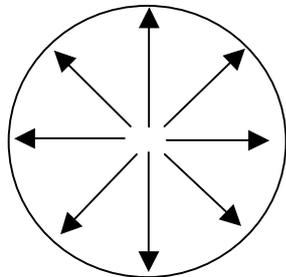
Basic structure of Five Dimension is explained as follows.

Recognition is always composed of element that is orthogonal to direction of consciousness. (Fig.1)

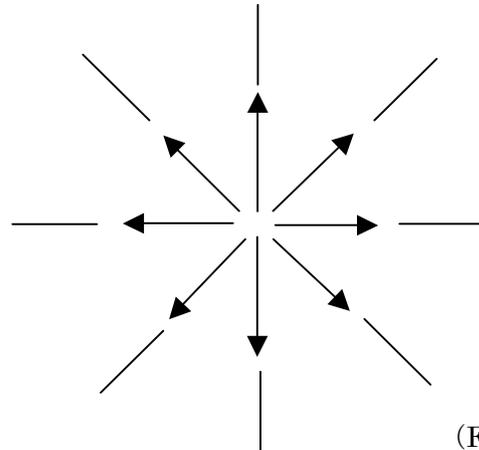
Existence that is both parallel to direction of consciousness and without thickness can't be recognized. (Fig.2)



Suppose there is circle centered on yourself (Fig.3). When circle is recognized, consciousness turns to diametrical direction. As circle is in a direction perpendicular to direction of consciousness, it can always be recognized.



(Fig.3)



(Fig.4)

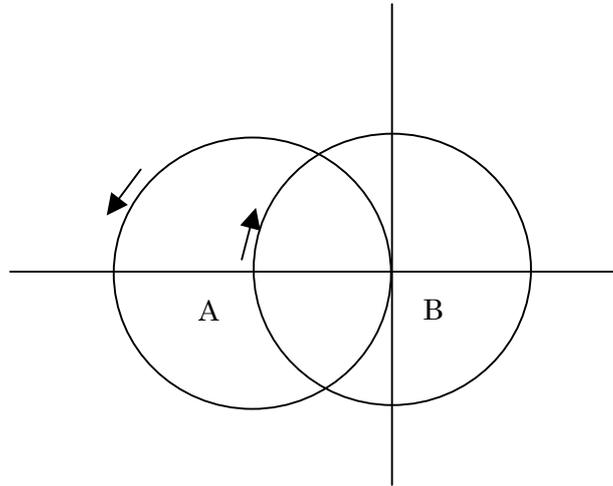
The world we live is thought to be composed of three dimension (length, width, depth). But what is recognized at the same time is only component in a direction perpendicular to direction of consciousness. There may be diagonal component, it should be split into pieces. Diagonal figure can be thought to be composed as a result of continuity of short length perpendicular to consciousness.

If this recognition target, component of circle perpendicular to consciousness, is rotated 90 degrees, what do you think will happen?

Being rotated, it is parallel to direction of consciousness. If it is parallel to direction of consciousness, without thickness, it can't be recognized. (Fig. 4)

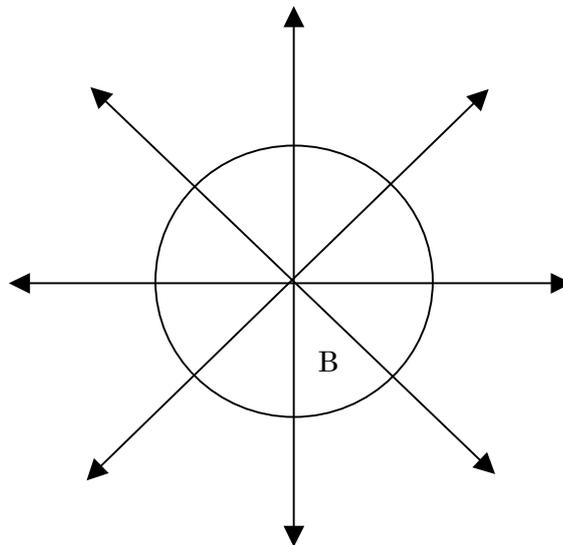
If there is world composed of only components parallel to direction of consciousness, it may be able to be understood that we can't recognize the world.

**Double Circle Structure**



(Fig.5)

Two circles that are same in size (Circle A, circle B centered on point A, point B) are rowed, center of one circle having contact with circumference of another circle. Relationship for centers of both circles to have in contact with circumference of another circle is always satisfied. (Fig.5)

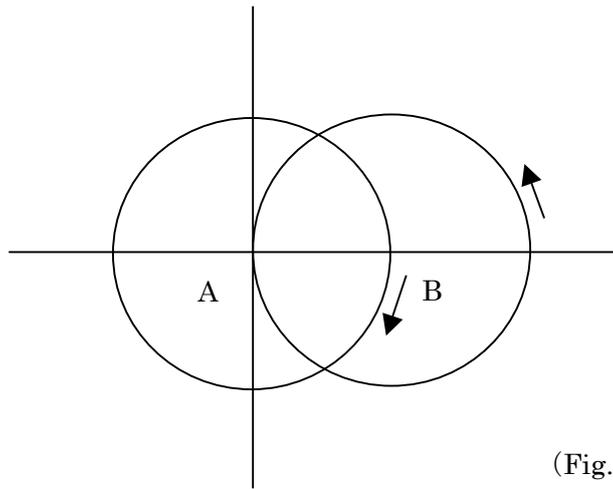


(Fig.6)

Allow movement of above figure means movement of every point on circle A seen from point B. Simple harmonic motions centered on point B in all directions are done.

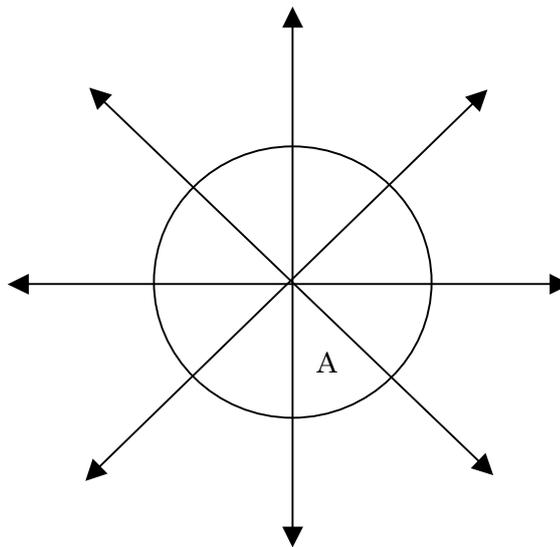
Suppose circle A moves around circle B in clockwise direction. Circle A rotates on its axis the same degrees as degrees of movement around circle B in anticlockwise direction. Keeping this relationship, if circle A moves around 360 degrees, every point on circle A moves in simple harmonic motion centered on point B. (Fig.6, amplitude corresponds to diameter of circle.)

As described above, by interaction of 2 circles, circle motion can be converted to simple harmonic motion.



(Fig.7)

The case in which circle A moves around circle B was thought earlier. Looking this movement from a different angle, suppose circle A is motionless and circle B moves. (Relative relationship of circle A and circle B will be kept.)



(Fig.8)

Allow movement of above figure means movement of every point on circle B seen from point A. Simple harmonic motions centered on point A in all directions are done.

In this case, circle B rotates on its axis in anticlockwise direction, moving around circle A in clockwise direction. (Fig.7)

(If looking direction is reversed and this movement is looked from a back side, rotation is reversed. Circle B rotates on its axis in clockwise direction, moving around circle A in anticlockwise direction.)

In this case, every point on circle B moves in simple harmonic motion centered on point A. (Fig.8)

As described above, every point on circle A moves in simple harmonic motion centered on point B, on the other hand, every point on circle B moves in simple harmonic motion centered on point A.

Suppose this is considered in combination with “Basic structure of Five Dimension” of beginning part. It can be understood that relationship between circle A and circle B is relationship between consciousness and recognition target. Both are circle and component perpendicular to the circle. In addition, relationships between consciousness and recognition target are exchanged each other according to whether fixed point is A or B.

- Point A is center of recognition. --- Circle A is recognition target, circle B is movement of consciousness. (Simple harmonic motion)
- Point B is center of recognition. --- Circle B is recognition target, circle A is movement of consciousness. (Simple harmonic motion)

These can be explained in other words as follows.

- Circle A can be recognized from point A. points on circle B can't be recognized.
- Circle B can be recognized from point B. points on circle A can't be recognized.

Recognition is composed of two kinds of consciousness.

(Please refer to “Five Dimension Theory”)

These two kinds of consciousness will correspond to two kinds of circles.

When the world is recognized, consciousness moves freely in space. Range where consciousness can reach is our world.

Matter is a part of range where the consciousness moves.

Relationship between circle and simple harmonic motion just corresponds to

relationship between matter and consciousness. A small part (Circle) of consciousness (Simple harmonic motion) is recognized as matter.

In addition, looking direction is reversed 180 degrees if center of recognition is changed from point A to point B (or from point B to point A). (It means contents explained “if---“ on page 5 is right.)

Therefore, comparing the case that center of recognition is point A with the case that center of recognition is point B, rotation is reversed.

It can be thought that the reason why electrons are composed of 2 pairs rotating reversely each other is here.

Recognition image is composed of combination of pairs of electron rotating reversely each other. Movement of the consciousness is called electron in physics.

Relationship between circle A and circle B is marvelous. Mutually, movement of another circle is simple harmonic motion of my circle. Movement of another circle is my consciousness.

It can be thought as follows.

- Circle B that can be recognized from point B is consciousness of point A.
- Circle A that can be recognized from point A is consciousness of point B
- .
- Point A can't recognize its own consciousness (simple harmonic motion of circle B)
- Point B can't recognize its own consciousness (simple harmonic motion of circle A)

Suppose point A is normal consciousness and point B is inner consciousness. (Spiritual consciousness). Point B can recognize circle B that is consciousness of circle A.

We feel that we can't recognize our own consciousness, but we can recognize our consciousness by consciousness (Spiritual consciousness) in the reverse direction. (It means our consciousness can be seen)

Thinking it inversely that our normal consciousness can be recognized by inner world, normal world we recognize is consciousness of inner world.

- Our world is composed of consciousness of inner world (Spiritual world).

The reason why rotation can't be felt at all though recognition (World) is composed of rotation is that recognition is composed of combination of pairs of reverse rotations each other. Addition of reverse rotation makes rotation component zero. Therefore, feeling no rotation, we always live.

Suppose consciousness is perpendicular to matter, all matters are connected by this unseen component.

Whole universe and oneself are connected. (It can be thought that universe and body are different viewpoints of the same thing.)

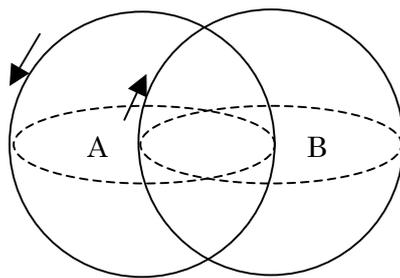
When this situation is intuitively grasped, the expression "Holy am I alone throughout heaven and earth." emerged.

Explaining theoretically, mysterious words can be understood by many people.

### Double Sphere Structure

Basis of recognition was explained in Double Circle Structure. But our consciousness moves only flatly in this structure. We recognize up and down and to and fro and left and right. Double Circle structure is insufficient in order to explain this situation.

Double Sphere Structure is thought to break through this situation.



(Fig.9)

Two spheres that are same in size (Sphere A, sphere B centered on point A, point B) are rowed, center of one sphere having contact with surface of another sphere. Relationship for centers of both spheres to have in contact with surface of another sphere is always satisfied. (Fig.9)

Suppose sphere A moves around sphere B in clockwise direction. Sphere A rotates on its axis the same degrees as degrees of movement around sphere B in anticlockwise direction.

Keeping this relationship, if sphere A moves around 360 degrees, every point on sphere A, passing point B, moves in simple harmonic motion centered on point B. (Amplitude corresponds to diameter of sphere.)

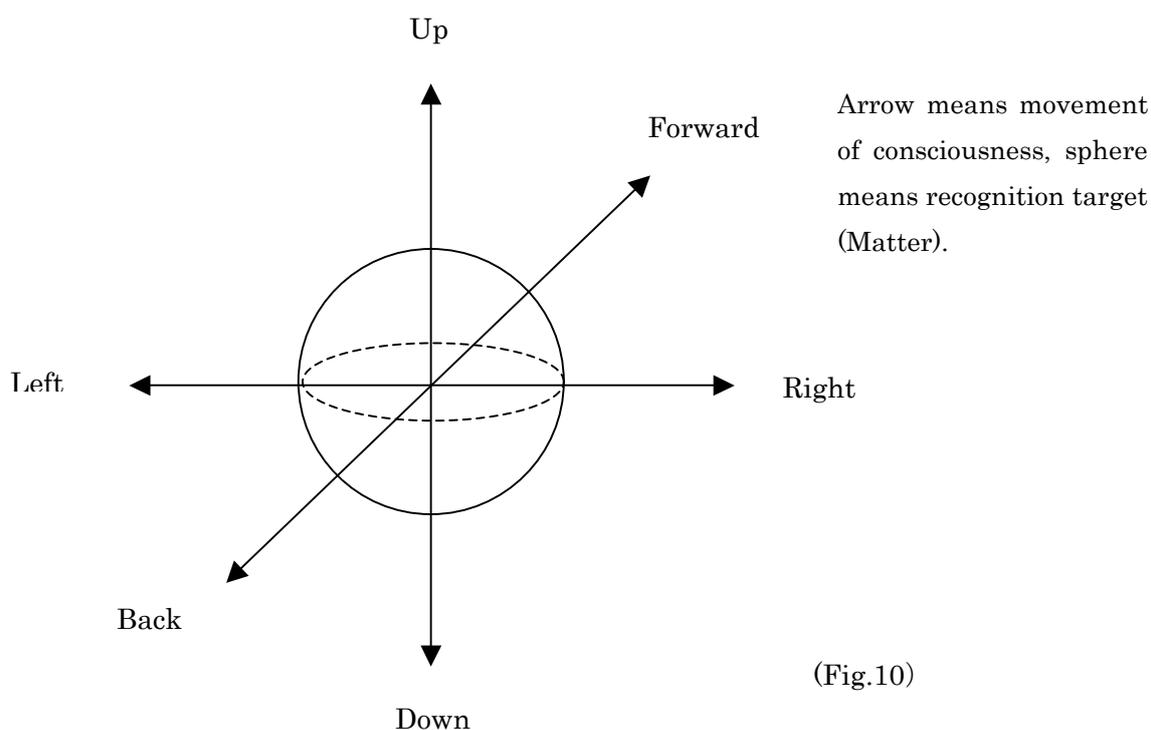
In this movement, only points on circle (Intersecting point of sphere A and plane including axis passing both point A and point B) on sphere A moves in simple harmonic motion centered on point B.

Point A needs to move around sphere B, rotating on axis passing both point A and point B, in order for every point on sphere A to move in simple harmonic motion centered on point B. In addition, rotation on axis is far slower than rotation of arrow in Fig.9. Suppose number of rotations of the former is infinite, while number of rotation of the latter is one. So, every point on sphere A moves in simple harmonic motion centered on point B.

As described above, by interaction of 2 spheres, movement of every point on sphere can be converted to simple harmonic motion.

(Explanation described above can easily be understood by referring to explanation of double circle)

Movement of Double Circle is intersecting point of movement of Double Sphere and plane (plane including both point A and point B). Movement is limited on this plane in Double Circle, but this plane itself rotates in Double Sphere.



As described above, it can be understood that conversion of movement of rotation by Double Sphere Structure to simple harmonic motion is situation for simple harmonic motion by Double Circle Structure to be rotated on axis passing both point A and point B.

This situation agrees with recognition situation for us to recognize up and down and left and right.

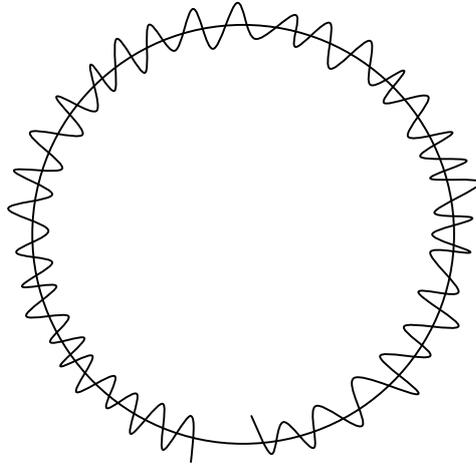
Recognition target (Matter) is sphere, consciousness (It moves back and forward of matter) is expressed by simple harmonic motion.

The case in which sphere A moves around sphere B was explained, but it is possible for sphere A to be fixed. It is thought in this case that relative relationship of sphere A and sphere B is kept. So, every point on sphere B moves in simple harmonic motion centered on point A.

Addition of movements in simple harmonic motion centered on point A and point B makes rotation component zero. (Please refer to explanation of Double Circle). The reason why rotation can't be felt is that rotation components become zero.

As described above, it can be understood that Double Sphere Structure is basic structure of consciousness.

## Spiral Shape



(Fig.11)

Spiral shape is also basic structure of consciousness. The way of thinking of it is explained as follows.

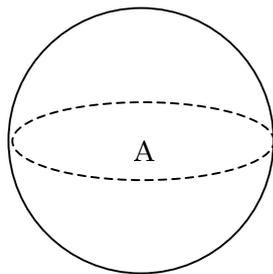
Suppose there is spiral shape centering around a circle. (Please refer to Fig 11)

Shortest distance between central axis and spiral shape is constant. (Figure is a little inaccurate)

Suppose rotation number of spiral shape is infinite per 1 rotation around circle. So, one rotation component of spiral shape is nearly circle. In addition, point on central axis is center point of one rotation component (nearly circle) of spiral shape.

Suppose circle of central axis is degenerated into a point. (It is called point A). So, center points of every rotation (nearly circle) of spiral shape are consolidated into point A.

At this time, spiral shape is converted into sphere centered on point A. Movement of every point on this sphere (made by spiral) is same as rotations of two directions (Rotations on circle and axis) explained in Double Sphere Structure.



If central axis of spiral shape is degenerated into a point (A), spiral shape becomes sphere centered on the point.

(Fig.12)

The reason why central axis is degenerated into a point is to generate recognition image (World).

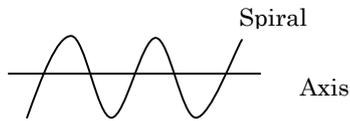
Our recognition is always centered on a point. Therefore, subject of recognition necessarily needs to be a point in order to explain recognition result (Construction of the world). This operation is conversion of axis degeneracy in relation between spiral and central axis. Central axis is subject of recognition and spiral is object of recognition.

### Relation between spiral shape and central axis is relative

As described above, spiral is converted into sphere by degeneracy of circle that is central axis of spiral shape into a point. Relation between spiral and central axis will be reconsidered at this point.

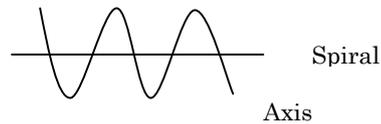
If a man on central axis (circle) looks spiral while he moves, spiral looks like it moves around him. (Fig.13)

A man's position is changed. If a man on spiral looks central axis while he moves, he moves in a circle and central axis looks like it moves around him. (Fig.14)



Look spiral from  
central axis.

(Fig.13)



Look central axis  
from spiral.

(Fig.14)

When we recognize the world, we ourselves are always fixed point. We feel like surroundings moves around us. When we walk, as we think “I am walking”, we don't feel surroundings move, but if we think ourselves is fixed, it can be considered that surroundings moves in the opposite direction of walking.

From the above, it will be understood,

“In recognition, subject is fixed point and object is movement point.”

From this principle, it will be understood that there is a case where relationship between spiral and central axis is reversed

## Sphere structure by exchange of spiral for central axis

Relation between spiral and central axis (circle) will be exchanged.

Spiral  $\rightarrow$  Central axis (Circle)

Central axis (Circle)  $\rightarrow$  Spiral

After the exchange, new central axis (circle) will be degenerated. Then, new spiral becomes sphere.

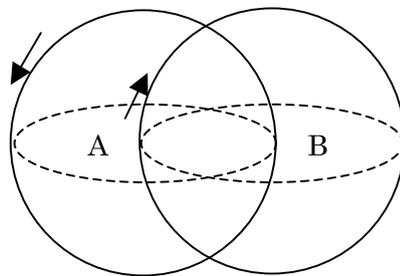
Two kinds of spheres, sphere made earlier and sphere made this time, are composed. These two kinds of spheres are named sphere A and sphere B. (Fig.15)

Sphere B is composed of center of sphere A.

Sphere A is composed of center of sphere B.

These relations are always satisfied.

The shape in which these relations are satisfied is as follows.



(Fig.15)

The structure in which relation between two spirals (two central axes) is satisfied is, actually, structure explained in Double Sphere Structure.

The situation in which rotation number of arrow direction of the figure is infinite and rotation number on axis passing both point A and point B is one corresponds to the situation in which spiral rotates infinitely, rotating one revolution on axis (circle).

From the above, it can be understood that spiral structure and Double Sphere Structure are the same structure excepting conversion of degeneracy of central axis.

It was explained that Double Sphere Structure is basic structure of consciousness. As described above, it can be understood that spiral structure is also basic structure of consciousness.

Sphere A and sphere B is marvelous relation.

Sphere A --- The shape composed of spiral whose central axis (Points on sphere B) is degenerated.

Sphere B --- The shape composed of spiral whose central axis (Points on sphere A) is degenerated.

1. Sphere A is recognition target (space) in the case that points on sphere B are consolidated into a point
2. Sphere B is recognition target (space) in the case that points on sphere A are consolidated into a point
3. In the above 1, points on sphere B are consolidated into a point and included in sphere A
4. In the above 2, points on sphere A are consolidated into a point and included in sphere B

From the above 3 and 4, it can be understood that sphere B and sphere A include each other. In short, it is structure in which space is included in a point.

It can be thought that world is composed of fractal structure. (As two brains of large and small are recognized at the same time.) . In fractal, space is included in a point.

From the explanation described above, importance of Double Sphere Structure (Structure of conversion of spiral) as construction principle of fractal will be recognized.

In addition, spiral structure is described in “Five Dimension Theory”.

### **Utilization of relativity theory**

We always recognize brain in the head and brain as large as space, large and small brains at the same time.

Suppose our recognition is composed of superposition of two coordinate systems, this situation can be explained theoretically.

It is derived from special relativity theory that time and length is changed from relativity of two coordinate systems.

If motionless man watches things that move at high speed, length is shortened. And passage of time of things that move at high speed is slower than that of motionless man.

Suppose a man has both motionless coordinate system and coordinate system that moves at high speed at the same time, a thing can be recognized as two things that differ in size.

(Above instance) If a thing that moves at high speed is watched in motionless coordinate system, it is shortened. In addition, if a thing that moves at high speed is watched in coordinate system that moves at high speed, length is same in motionless state. If these recognition results are overlapped, two kinds of things, long thing and short thing, can be recognized at the same time.

Suppose our recognition is composed of overlap of multiple coordinate systems, it is theoretically natural to be able to recognize a thing as things of different sizes.

In addition, in special relativity theory, length is changed only in direction of velocity. The reason why length is changed in all directions is that world is composed of revolution of consciousness. It can be understood that revolution has similar effects in all directions,

It is required condition that consciousness moves at high speed in this case. How fast is it?

Suppose the size of universe is about the 26th power of 10 meters and the size of brain is 0.2 meter, ratio is about the 27th power of 10 meters. From Lorentz transformation,

$$(1 - (v/c)^2)^{0.5} = 10^{-27} \quad ( \text{ } ^n \text{ means } n\text{-th power } )$$

$$v \doteq c$$

It means that our consciousness moves at light speed. Though essential meaning of light is not understood, from above mentioned consideration, it is reasonable to think that light is our consciousness itself.

As consciousness moves at light speed, large universe looks as small as brain.

From the above, following conclusion can be derived.

“Universe is human body itself.”

It is content that has been told in religion and so on, but it has been thought to be unscientific until the 20th century. But from the consideration described above, it can be understood that it is scientifically and theoretically natural conclusion.

Large and small brains are recognized at the same time means that world is composed of fractal. In fractal structure, space is included in point.

(Please refer to “Five Dimension Theory”)

Therefore, special relativity theory is necessary theory to explain that world is composed of fractal structure.

It is not necessary for coordinate systems to be limited to two in this case. It can be understood that recognition image (world) is generated by having multiple coordinate systems at the same time. By thinking that every coordinate system moves at high speed, structure (fractal) in which every point includes cosmic space can theoretically be explained.

### **Information processing in brain.**

Suppose the result of information processing in brain is our world (recognition). We recognize the world centered on a point in head. But brain has size. Though information is processed in various places in brain, information is gathered in a point.

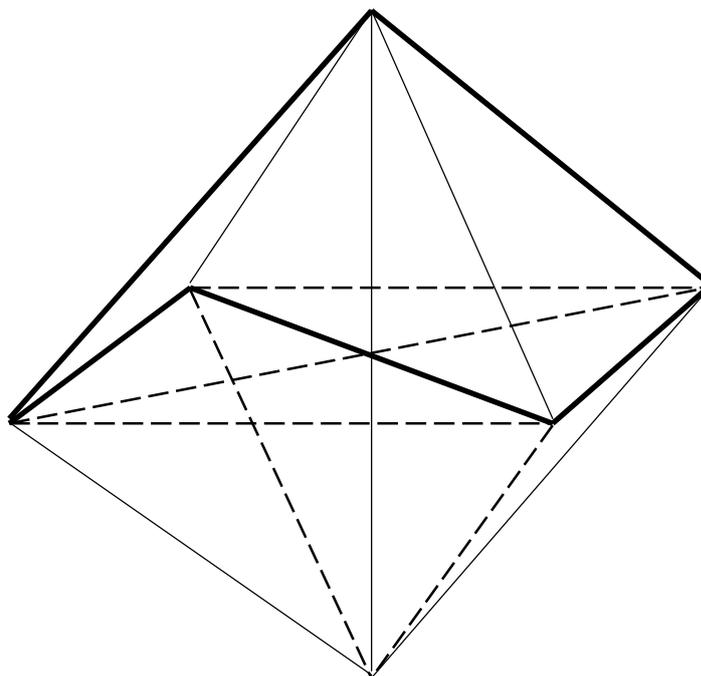
The information is gathered in a point by an electric current in brain. In short, information is gathered in a point in brain at high speed. In this case, there is a speed difference between center of recognition (fixed point) and information at high speed. By this speed difference, change in size based on special relativity theory should happen.

From the above, it is proper that our world (recognition result) is result of change in size based on relativity theory.

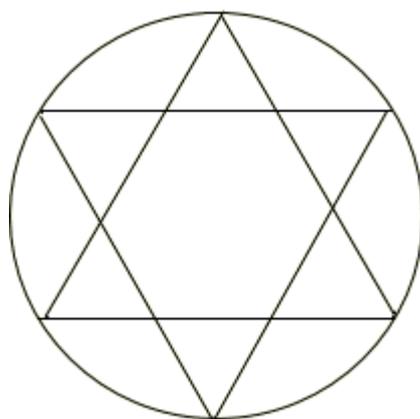
- We live in change in size based on relativity theory
- It is no wonder that universe looks body.

## Association chart of Five Dimension Theory

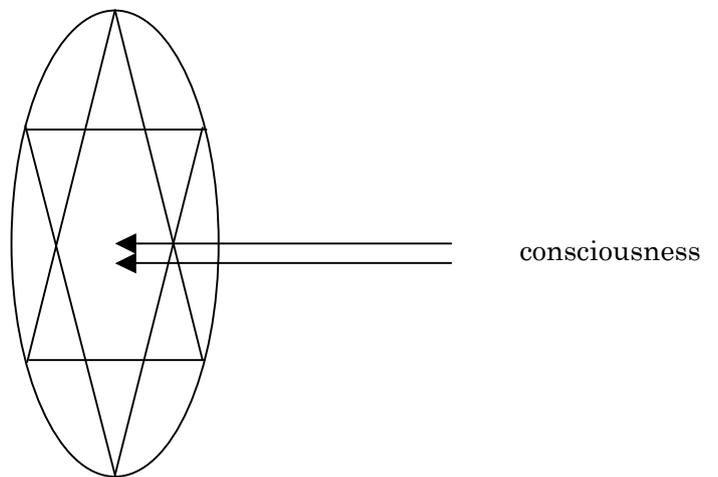
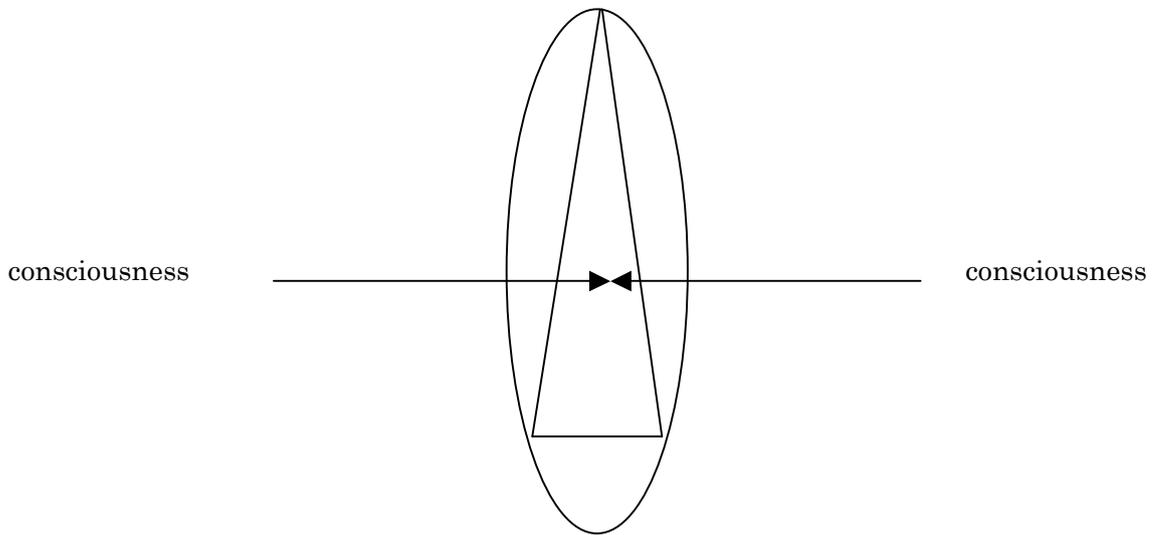
Pyramid figure.



Hexagram

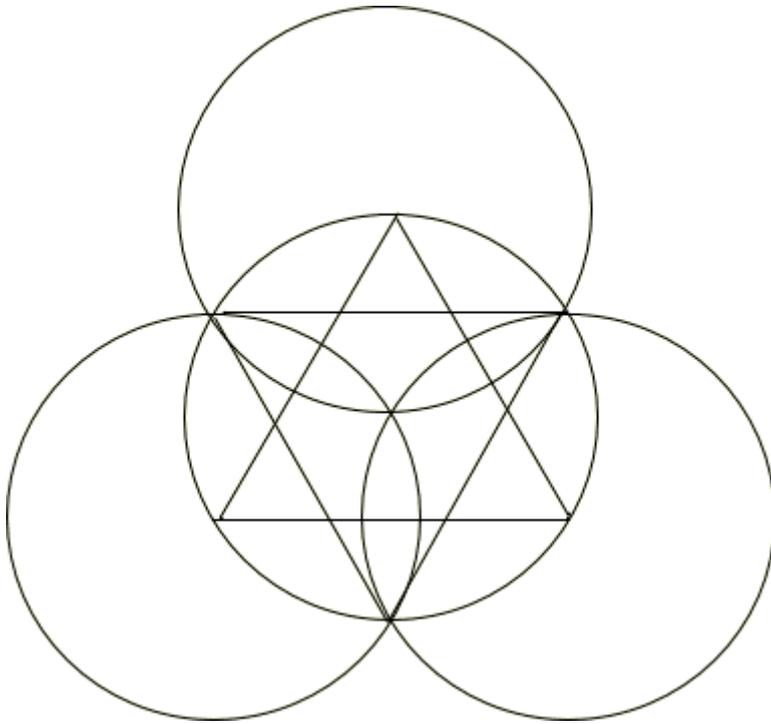


Overlap of consciousness



Our recognition image exists on intersection of two-way consciousness. Left line of sight (arrow) in the above is rotated 180 degrees around axis and reversed right 180 degrees. Hexagram is figured in this way. This figure is basic figure of consciousness. Suppose one direction of consciousness is  $i$  direction, the other is  $-i$  direction. Recognition is composed of overlap of both consciousness.

## Fourfold Circle Structure



## Chapter 2 Principle of recognition

The world is result of recognition. The world is composed of shape. Therefore, basic shape of recognition is necessary for consciousness.

Basic shape of recognition and basic of recognition process is explained in chapter 1.

Basic of Five Dimension Theory not stated in chapter 1 is explained in chapter 2.

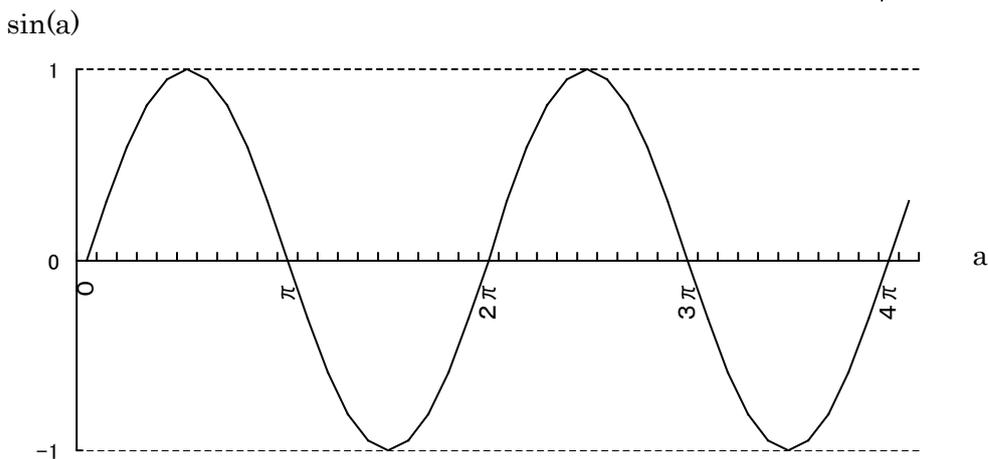
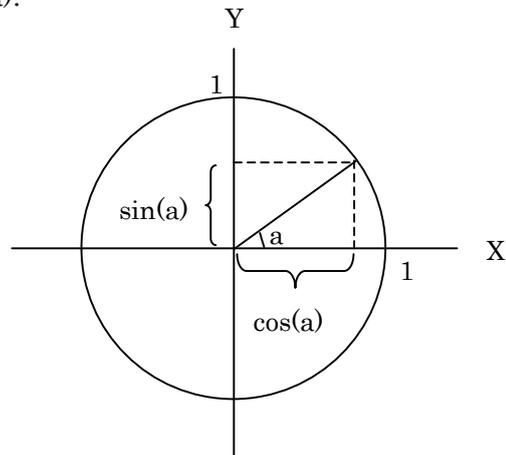
### Periodic function

$\sin(a)$  and  $\cos(a)$  of trigonometric functions are periodic function with cycle  $2\pi$  (radian) ( $360^\circ$ ). Periodic function means that all function values of variable  $a$  that differ by  $2\pi$  are the same.

Meaning of trigonometric functions  $\sin(a)$ ,  $\cos(a)$ .

It is a circle with the radius of 1 centered on intersection of X-Y coordinate, angle of rotation of X-axis direction is 0.

X-coordinate, Y-coordinate of point, on the circle, whose angle of rotation is  $a$  are  $\cos(a)$ ,  $\sin(a)$ .



Graph of  $\sin(a)$

The world we live in is construction of periodic function. Do you know where periodic function is?

Making one rotation clockwise (counterclockwise), recognition state returns to state before rotation. It means that the world is composed of periodic function of 360-degrees (2pi radian)).

### Fourier series

Suppose a periodic function is  $f(x)$ . period of it is  $2\pi$  (rad).  $f(x)$  can be expressed as follows.

$$f(x) = \frac{a(0)}{2} + \sum_{n=1}^{\infty} a(n)\cos(nx) + b(n)\sin(nx)$$

$$a(n) = \frac{1}{\pi} \int_0^{2\pi} f(x)\cos(nx)dx \quad (n=1,2,3 \cdot \cdot \cdot)$$

$$b(n) = \frac{1}{\pi} \int_0^{2\pi} f(x)\sin(nx)dx \quad (n=1,2,3 \cdot \cdot \cdot)$$

To express  $f(x)$  by use of infinite series of trigonometric function (sin, cos) in this way is called Fourier series expansion of  $f(x)$ .

The world is composed of rotation period  $2\pi$ . It means that composition of the world can be expressed by use of periodic function. It is defined as  $g(x)$  ( $x$  is angle of rotation).  $g(x)$  can be expressed as series of trigonometric function by use of Fourier series expansion. It means that structure of the world can be expressed as sum of trigonometric functions.

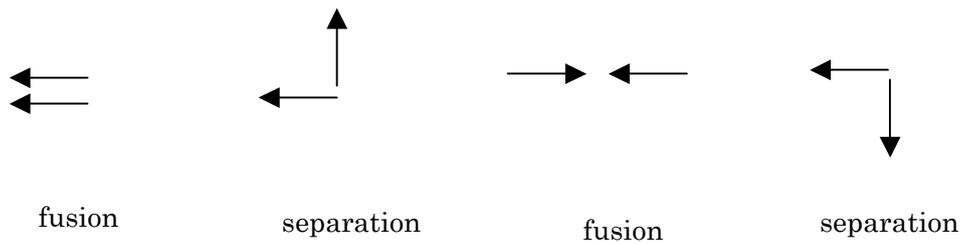
It can be thought to be superposition of trigonometric functions. As described above, structure of the world can be expressed as sum of infinite basic structures. This is basic of structural principle of the world in Five Dimension Theory.

### Separation and fusion

Separation of consciousness is necessary for recognition. Yourself and distant point can be recognized by the separation.

Next, it is necessary for separated consciousnesses to fuse in a point in order to generate the world (recognition image). Recognition image is constructed as sphere structure centered on yourself (Head). It is necessary for consciousnesses to be concentrated on a point in order to create the recognition state.

As described above, separation and fusion are essential elements for recognition.



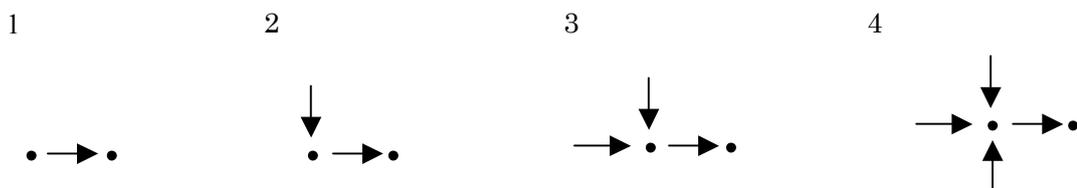
Separation and fusion alternate with each other..

Separation makes perpendicular component of consciousness (recognition target).

Fusion extinguishes perpendicular component.

Rotation by 90 degrees is necessary for constant recognition of recognition processes.

Rotation structure is necessary for recognition.



1: Consciousness is separated for recognition.

2: Recognition of consciousness of movement 1 (recognition from perpendicular direction)

3: Recognition of consciousness of movement 2 (recognition from perpendicular direction)

4: Recognition of consciousness of movement 3 (recognition from perpendicular direction)

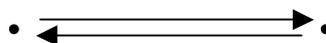
Recognition is processed while rotating. Consciousness itself of recognition is target of recognition.

### The meaning of recognition

What concretely is recognition?

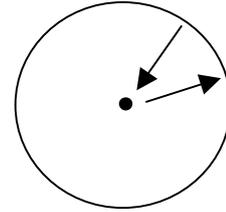
There are two fixed points, yourself and target, and you can feel recognition when consciousness moves back and forth between these two points.

It is called separation to go to target, and it is called fusion to go back.



**Large and small recognition at the same time**

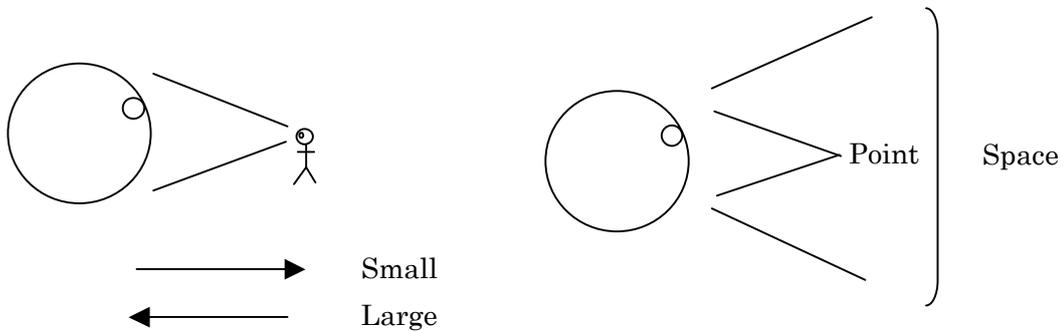
When a target is recognized, reverse direction is recognized at the same time.



Both circle / point in (Right fig.) mean consciousness of yourself.

- (1) Circle → Point    Point is recognized in this direction. (Large→Small recognition)
- (2) Point → Circle    Circle is recognized in this direction. (Small→Large recognition)

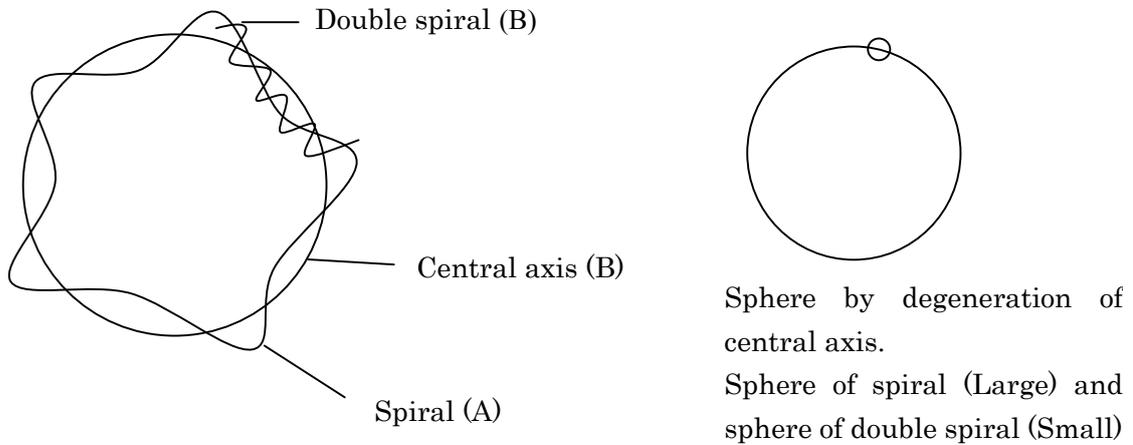
Both directions can be recognized by combination of circle / point.  
Our recognition is composed of all combinations of it in all directions.



- (Left Fig.)    Large and small are reversed by the direction of consciousness.
- (Right Fig)    Recognition of point and space is composed of combination of these.

If there are things that look same in size, distant thing is bigger. It looks smaller by reversion of large and small.

## Double spiral



(Fig.2-1)

Suppose there is spiral whose central axis is circle. Rotation number of the spiral is  $n$ .

Spiral and central axis become Double Sphere Structure by degeneration of central axis. (Please refer to chapter 1 “Double Sphere Structure”)

If central axis and spiral are changed with each other, former central axis becomes spiral (A) and number of spiral is the same as former spiral. (Fig2-1 left)

In this state, central axis (B) also exists as spiral around spiral. (Double spiral). When spiral (A) is central axis, (B) makes  $n$  revolutions round (A) as spiral. This relation doesn't change even when (B) is central axis. Therefore, (B) is recognized as spiral (Double spiral) around (A).

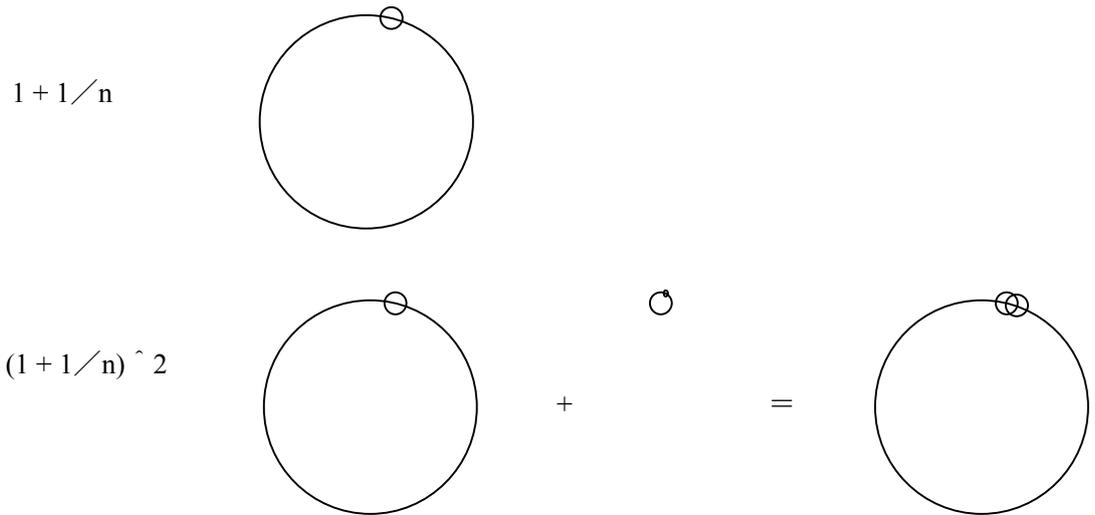
This double spiral becomes small sphere by degeneration of central axis.

What is described above is arranged.

- Spiral becomes sphere by degeneration of central axis.
- Double spiral becomes sphere by degeneration of spiral.
- Relation (of size) between spiral and double spiral is  $1 : 1/n$ .

(Fig. 2-1 Right) Relation between spiral and double spiral. Ratio is  $1 : 1/n$  in size.

If central axis and spiral are once changed with each other, double spiral is constructed. If this change is repeated, multiple spiral can be constructed. As described above, our recognition is composed of multiple spiral structure by change of central axis.



(Fig.2-2)

- $1 + 1/n$  : Large sphere and small sphere.
- $(1 + 1/n)^2$  : Structure of multiplying large sphere and small sphere by  $1/n$  plus original large sphere and small sphere.

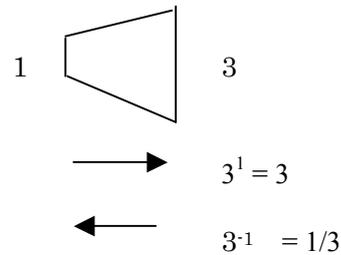
**Index is change of direction**

There are vertical line segments whose lengths are 1 and 3.in the right figure

$3^1$  means recognition from left to right.  $3^{-1}$  means recognition of reverse direction.

As described above, index means direction between subject of recognition and object of recognition.

Index 1 means reverse direction of index  $-1$ . index  $-1$  means rotation of 180 degrees compared with index 1.



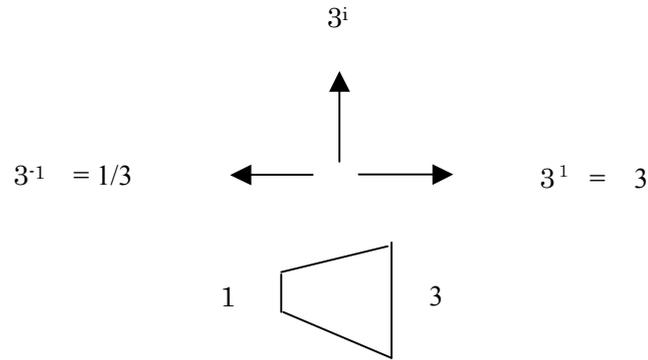
$i^2 = -1$

The square of imaginary unit  $i$  is  $-1$ . index  $i^2$  means rotation of 180 degrees. Index  $i$  means half of it, rotation of 90 degrees.

For example,  $3^i$  means rotation of 90 degrees as compared with recognition of 3.

We recognize existence perpendicular to direction of our consciousness.  $3^i$  is rotation of 90 degrees, target of recognition can't be seen. This rotation is necessary for generation of

recognition image.



### Space is result of conversion of light to straight line

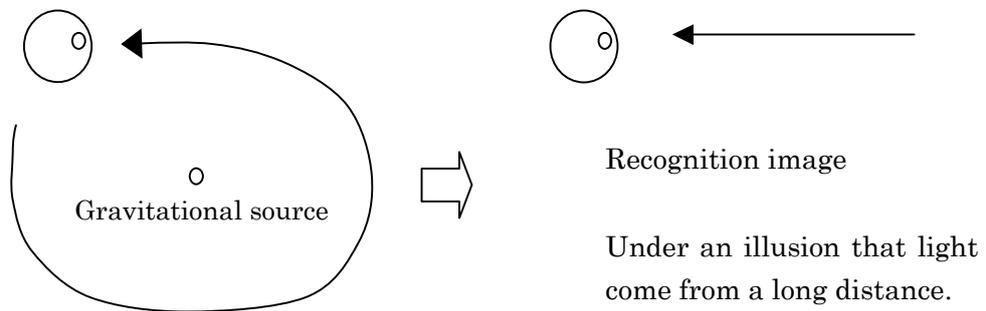
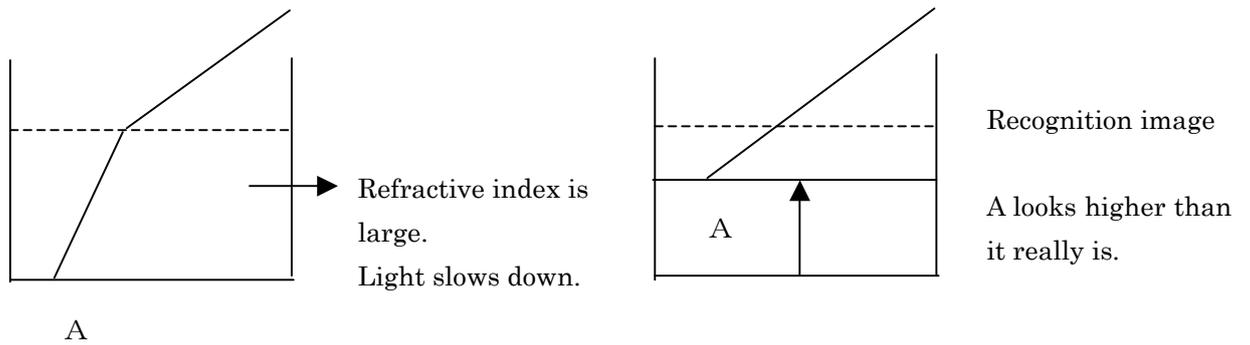
Space is result of generation of our recognition. We generate space by light sensed by eyes. In this case, space is generated on the premise that light goes straight.

Even when light is curved, space is generated by transformation to the straight. As a result, space whose shape is different from path of light is generated.

The case in which light passes through water in water tank will be considered as an example of curved light,

As refractive index of water is larger than that of air, speed of light slows down. Angle of light changes at surface of water for the difference. As a result, bottom of water tank looks higher than it really is. It means that space is generated in disregard of curve of light.

In this way, we generate space on the premise that light goes straight. Therefore, if light curves before recognition process, this curved shape and space generated by us differs.



Light curves by gravity. If there is a gravitational source, light curves by influence of it. When we see the light, we generate space on the premise that light went straight. But, as there is an infinite number of gravitational sources, light certainly curves. Therefore, it should be thought that our space is quite different from structure of universe before recognition.

Space is generated by conversion of light to straight line. But light before conversion is curved. To understand this difference rightly is necessary to grasp structure of the world correctly.

**Subject and object**

Subject and object is necessary for recognition. Subject of recognition is consciousness to recognize, object of recognition is consciousness to be recognized.

Classification of subject / object is necessary for light. Light of object of recognition sometimes appears curved. (Light curves when it is seen from side of water tank.). But, light of subject of recognition is converted to straight line. (Water tank looks shallowly etc..)

Central axis and spiral are necessary for recognition. Central axis corresponds to

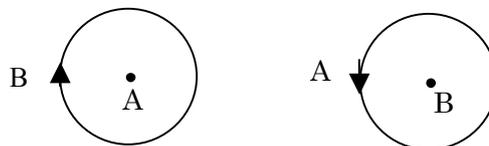
subject of recognition, spiral corresponds to object of recognition.

When multiple spiral is generated, central axis and spiral are changed with each other.. This change can be realized by changing subject of recognition and object of recognition with each other.

Spiral is shape as object of recognition. When it becomes subject of recognition, recognition image is generated on the premise that it is straight line

When recognition image (World) is generalized, subject and object are continuously changed with each other. In this case, information of spiral recognized from central axis as subject of recognition can be exchanged for recognition of central axis from spiral by changing subject and object with each other.

In the right figure, circle B (degeneration result of spiral) is recognized from point A (degeneration result of central axis).



This recognition is relatively equal to recognition of movement of point A around point B, regarding circle B as point B.

In addition, looking direction of case in which point A is center and looking direction of case in which point B is fixed are reversed from each other.

(Looking from the front and from the back.)

In Large and small recognition at the same time, recognition of Circle  $\rightarrow$  Point (Large $\rightarrow$ Small) is the result of conversion from (recognition from center to circle) to (recognition from circle to center). Subject of recognition is persistently center. (Central axis in central axis and spiral is subject of recognition).

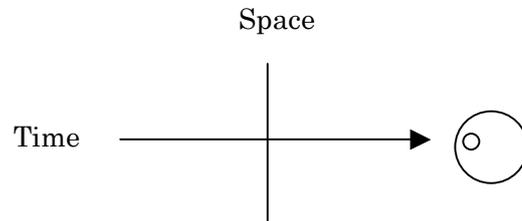
### **Time is perpendicular to space**

Space is result of our recognition of the world. Recognition is composed as the result of conversion of light to straight line. Space recognition is generated by superposition of components perpendicular to light.

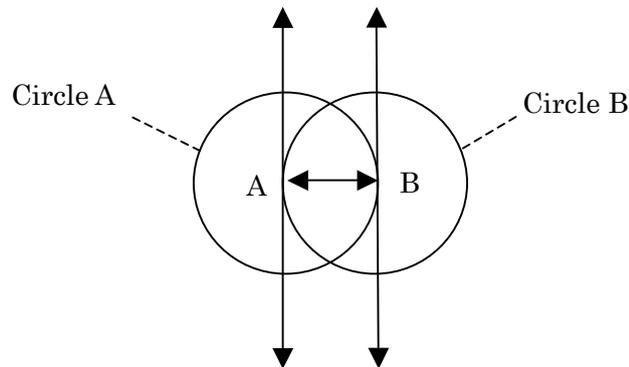
Light travels as time goes on. Our recognition image (World) is composed of this light. World is the result of recognition process of our own.

For all of these explanations, it can be understood that time is perpendicular to space.

Direction of consciousness was explained with the word “Consciousness axis” in my book “Five Dimension Theory”. Direction of consciousness is direction of light. Therefore, consciousness axis means time axis.



## Movement between centers of Double Circle is 90 degrees rotation



Two circles whose centers are mutually on the other circles are defined as Double Circle.

Suppose there is circle A centered on point A and there is circle B centered on point B. Circle A can be recognized from point A. and circle B can be recognized from point B. (Simple harmonic motion is generated by rotation / revolution.

Please refer to chapter 1)

- Points on circle A : Perpendicular to circle B as simple harmonic motion centered on point B. (recognition of circle A  $\rightarrow$  circleB)
- Points on circle B : Perpendicular to circle A as simple harmonic motion centered on point A. (recognition of circle B  $\rightarrow$  circleA)

As described above, direction of consciousness is perpendicular to circle of recognition target. Points on circle A recognize circle B, points on circle B recognize circle A.

If subject of recognition moves between centers of Double Circle, it moves to circle of recognition target.

Suppose subject of recognition recognizes circle A from point A (on circle B). Movement from point A to point B is movement onto circle A. Subject of recognition becomes point on circle A that is recognition target before this movement. Circle B is recognized by this movement.

Before Movement from point A to point B. : Recognition of circle B  $\rightarrow$  circleA.  
After Movement from point A to point B. : Recognition of circle A  $\rightarrow$  circleB.

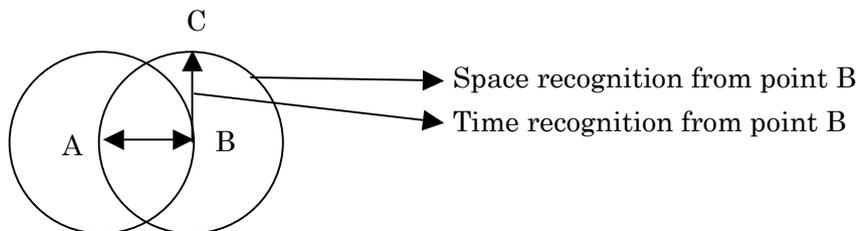
This means that direction of consciousness rotates 90 degrees by recognition subject's movement between centers.

Movement of centers of Double Circle means 90 degrees rotation.

## Five Dimension is change of time and space with each other

Recognition is to grasp components perpendicular to direction of consciousness.

That direction of consciousness rotates 90 degrees by recognition subject's movement between centers means subject and object of recognition change places with each other.



When circle B is recognized from point B, circle B means space, BC means direction of time. As described above, time is perpendicular to space.

Circle A seen from point A in Double Circle Structure with circle A and circle B means space. As circle A seen from point B is simple harmonic motion centered on point B, it means time.

As described above, movement between centers of Double Circle means change of time and space with each other.

In Double Circle Structure, time and space are changed with each other by recognition subject's movement between centers

This change of time and space with each other can be regarded as a dimension.

This dimension is defined as Five Dimension in this book.

The world is composed of One dimension - Five Dimension. These five elements are as follows.

1 --- 3 dimension : length, width, depth.

4 dimension : time.

5 dimension : world of change of time and space with each other.

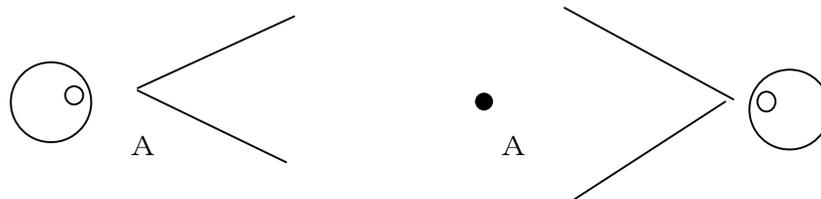
As composition elements of world are defined as points (particles) that are basic unit of space in present physics, it is impossible to get the idea to change time and space with each other. This definition itself has been disturbance of discovery of Five Dimension.

We recognize brain in head and brain as large as universe, large and small brains, at the same time. It is impossible to explain this situation theoretically by thinking that world is composed of only particles.

The premise that world is fractal structure is necessary for physics.

**Five Dimension is fractal structure.**

World is composed of fractal. This fractal is realized in recognition process.



(Figure on the left) Suppose world is recognized from point A. The world is included in point A at this time. Suppose whole world is 1 in this case.

(Figure on the right) Next, world is recognized from another position. Whole world is included in point A that is part of the world. The size of the world in point A is  $1/n$  time as large as the size of the world. (Suppose world is composed of  $n$  points). Whole world can be expressed as  $1+1/n$  in this case.

In this situation, the world is included in point A in the whole world. The world is included in the world. It means fractal structure. As described above, the world is composed of fractal.

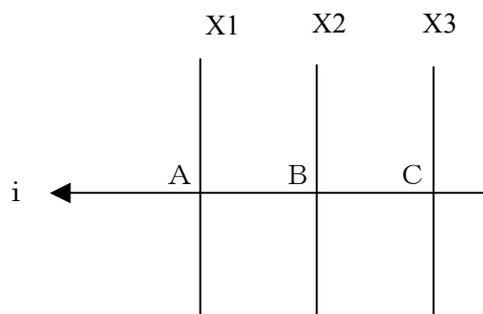
(Fig.2-3) Complex number will be discussed. Horizontal axis means imaginary number, vertical axis means real number. Imaginary number means direction of consciousness. (Time axis)

Real number  $X_3$  can be recognized from point B on  $i$  axis. Real number  $X_2$  can also be recognized from point A.

$X_2$  is included in point A. In addition,  $X_3$  is included in point B on  $X_2$ . The world of point B is included in point A. Point C is included in the world of point B.

As just described, complex number means fractal structure.

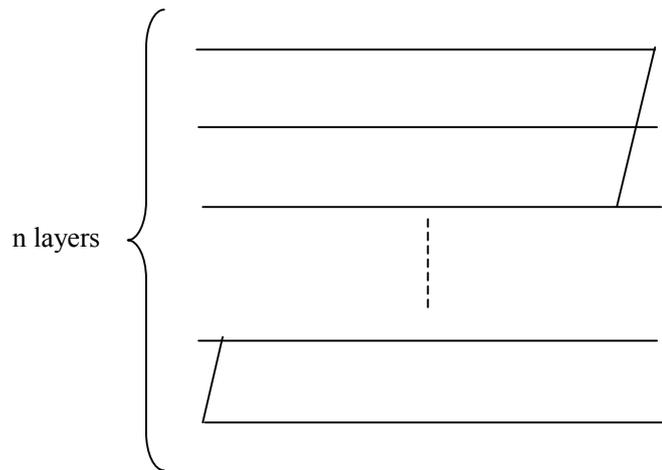
As just described, if real axis is connected with time axis ( $i$  axis), fractal can be constructed infinitely.



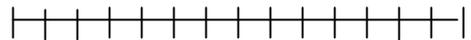
(Fig.2-3)

Suppose consciousness axis passes through n layers of the world.

By repetition of this process, the world is included in every point, and the world is also included in every point in the included world.



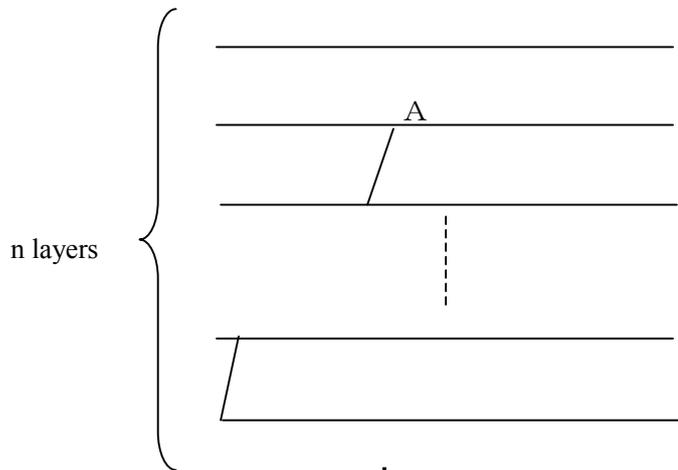
We recognize superposition of these n layers of the world as one world.



(Fig.2-4)

Suppose A is center of recognition. The world of n layers is recognized in reality, but we feel that one world is recognized from point A.

This is our ordinary recognition of space.

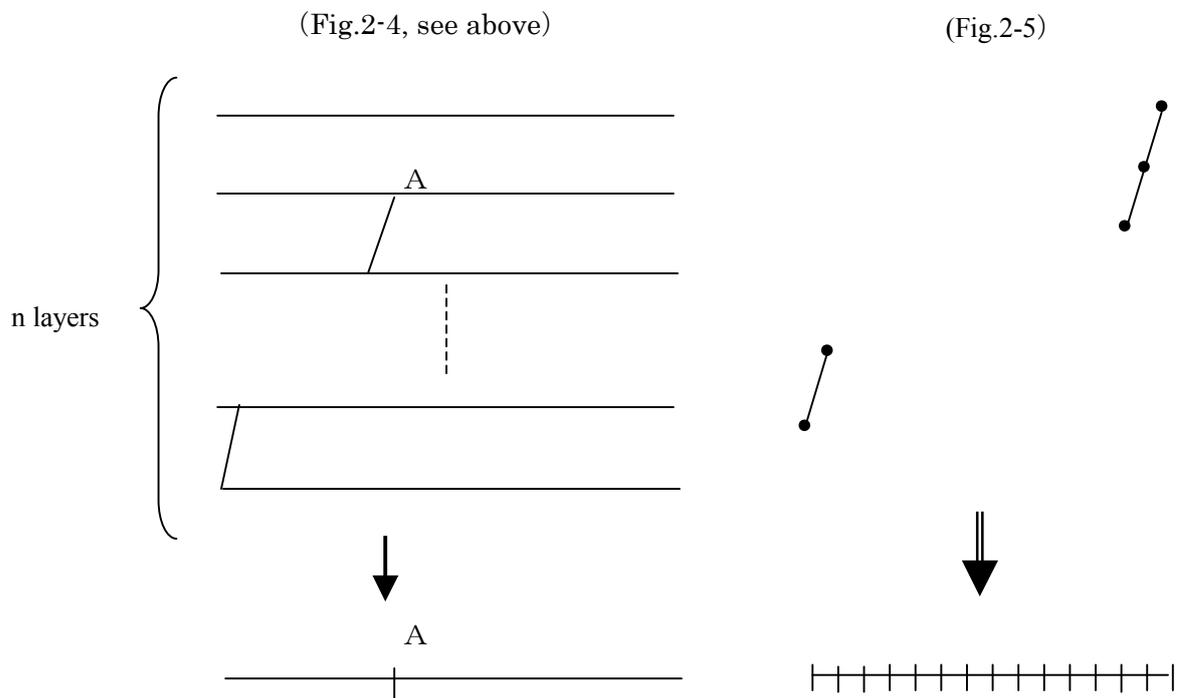


It is explained that recognition of the world is composed of superposition of n layers of the world in (Fig.2-4)

Explained more precisely, it becomes (Fig.2-5). The world is composed of recognition process. Target of recognition process is only points where times axis passes. Therefore, points where time axis (Oblique line on fig.2-5) doesn't pass don't exist. (Points not to be recognized don't exist in the world.)

Comparing (Fig.2-4) with (Fig.2-5), it can be understood that the worlds of n layers are composed of n points. It means that every point is used as composition element of the worlds of n layers.

In classical physics, one point (particle) is thought to be composition element of one atom. But in recognition process, one point is used as composition element of plural recognition processes.



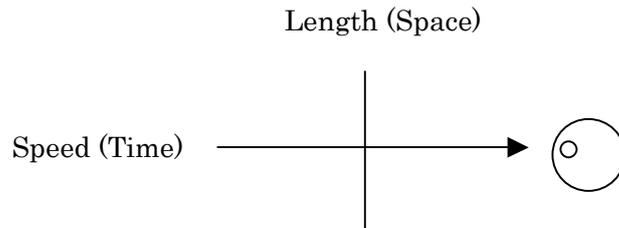
As world is fractal structure, every point includes other points. Therefore, a point is included in other points. A point is composition element of other points.

### Speed is perpendicular to length

Speed is realized in the direction of time. (As it is movement of distance per unit time, it is realized in the direction of time axis)

Length is realized in the direction of space. Length is composition element of space.

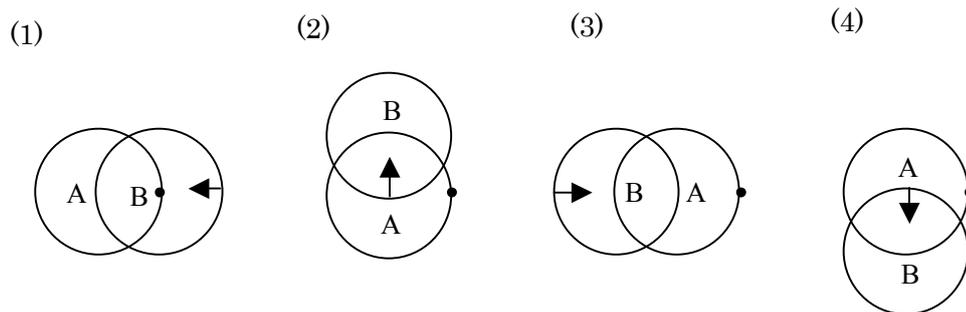
Time is perpendicular to space. Therefore, speed is perpendicular to length.



When length is recognized, it is necessary for a man recognizing it to move parallel to object. As speed is generated by this movement, length of object is shorten according to special relativity theory. It is necessary for a man recognizing object to stand still in order to measure the length accurately. But it is impossible for a man standing still to measure the length accurately.

As explained above, it can be understood that to recognize speed and length accurately at the same time is impossible.

### Recognition of inside and outside (Double Circle structure)



(Fig.2-6)

Recognition about Double Circle Structure will be considered.

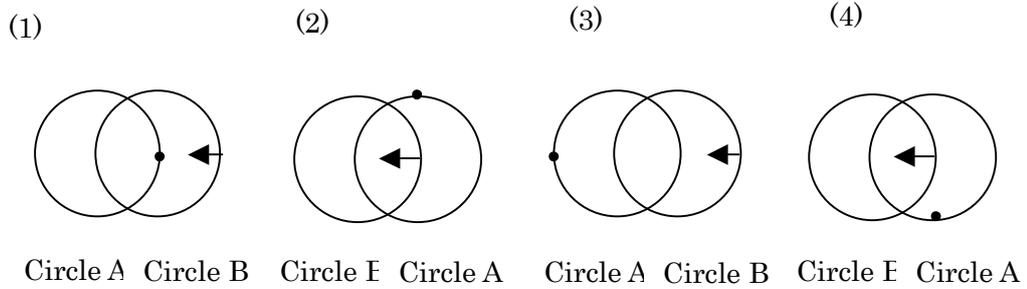
The case that circle B centered on point B moves around circle A centered on point A will be considered.

Suppose Circle B rotates on its axis in clockwise direction, moving around circle A in anticlockwise direction

A point (arrow), on circle B, that moves from side to side of point A with simple harmonic motion recognizes point A sometimes from inside, at other times from outside.

Direction of arrow means direction of line of sight. Direction of arrow changes with rotation of circle B.

Black circle means fixed point on circle A.



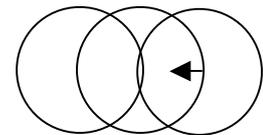
(Fig.2-7)

If direction of arrows in (Fig.2-6) is fixed, it becomes (Fig.2-7).

Assembly of (Fig2-7) is (Fig.2-8).

Circle A lies on both sides of circle B.

Arrow (Line of sight) looks right circle from inside and left circle from outside.



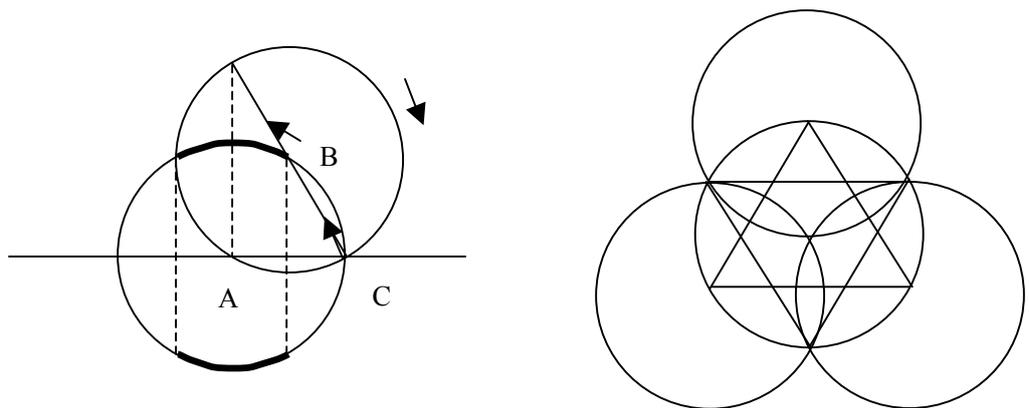
Circle A Circle B Circle A

(Fig.2-8)

(Fig.2-7). Fixed point on circle A rotates.

Our recognition is result of target's rotation.

In addition, recognitions from inside and outside continue.



(Fig.2-9)

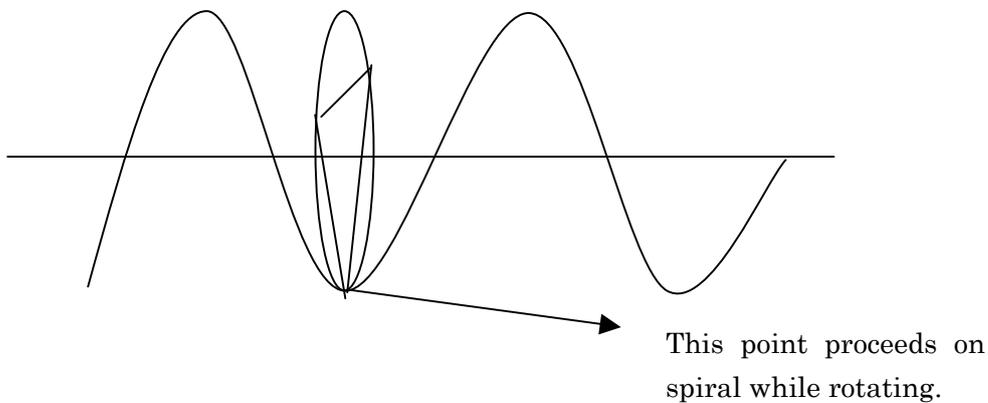
(Fig.2-9 on the left) Range of inside of circle A looked from point C that moves from side to side with simple harmonic motion is bold line.

(Arcs whose central angle of circle A is 60 degrees exist up and down.)

Circle A looked from inside and outside continues. Circle A looked from outside is looked next to circle A looked from inside.

If 3 circles around circle A whose central angles differ by 120 degrees move similarly, all of inside of circle A can be recognized. This structure is Fourfold Circle Structure. (Fig.2-9 on the right)

It can be thought that we generate 3 recognition images separately when we recognize something circularly (spherically) from inside. Three dimension feeling (Space recognition) is generated by simultaneous recognition of separated 3 recognitions from a point that doesn't exist on a plane on which 3 points exist.



(Fig.2-10)

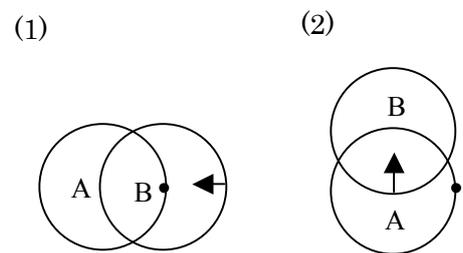
(Fig.2-10) It means movement of center circle of Fourfold Circle, rotating on spiral. Double circle consists of superposition of (pair of spiral and central axis) and (swap of spiral and central axis). Center circle of Fourfold Circle tangent to this structure is this figure.

(Fig.2-6) When arrow comes to center of simple harmonic motion, direction is perpendicular to direction of movement.

Direction of arrow of (2) (upward) is perpendicular to direction of movement (leftward). In this case, movement in the direction of arrow stops.

It means that movement in the direction of line of sight can't be felt at all.

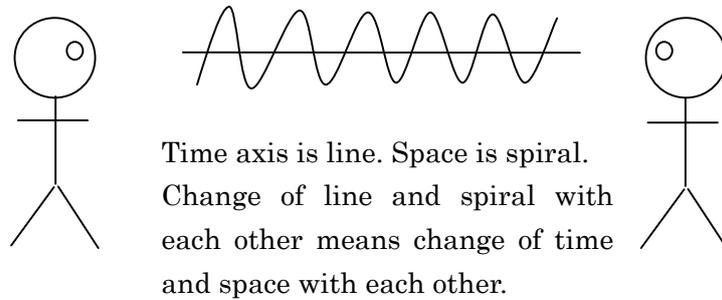
Our result of recognition (World) is composed of connection of this state in all directions. As a result, We can't feel ourselves (subject of recognition) moving.



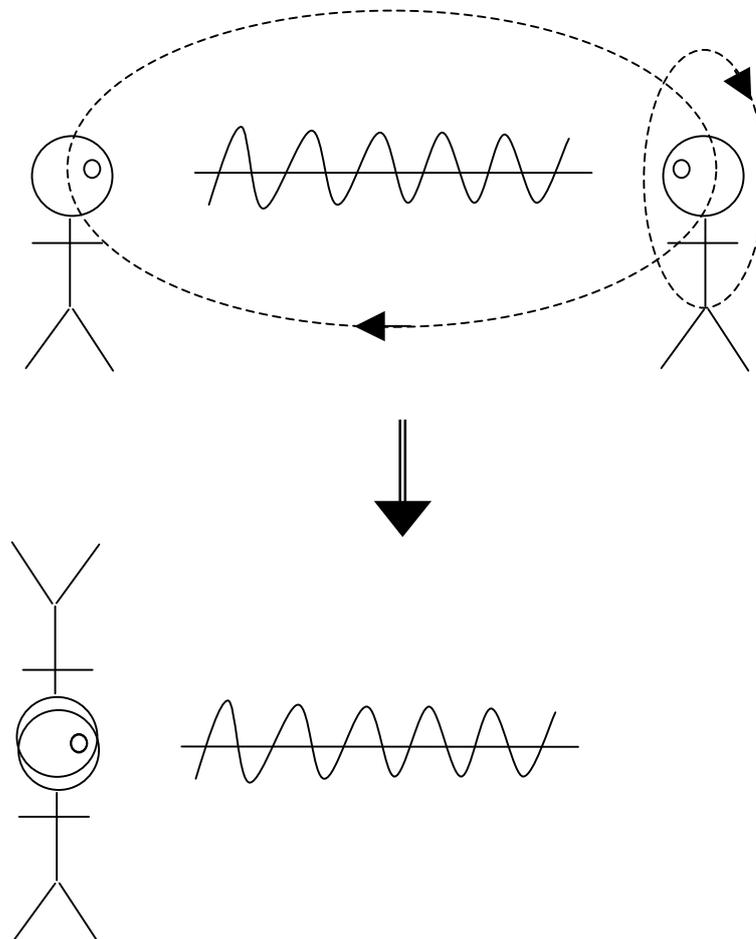
(Fig.2-6)(1)(2) See above

Speed (leftward) is perpendicular to distance (upward) in (2). As just described, speed is perpendicular to distance.

**Recognition process by consciousness in two directions**



Recognition is composed of consciousness in two directions. Recognition image is composed of putting consciousness of subject of recognition (line) and consciousness of object of recognition (spiral) between yourselves. Both consciousnesses can be subject and object of recognition by change of line and spiral with each other. As just described, consciousness itself to recognize something becomes target of recognition.



The world is composed centering around a point in head. It doesn't look like world is composed of two consciousnesses. It is necessary for direction of consciousness to be rotated 180 degrees and two consciousnesses are superposed in order to generate recognition image like this. Recognition image centered on yourself can be generated by rotating in this way.

Our recognition is composed as a result of superposition of consciousnesses in two directions. Though bodies exist up and down in the figure, what is rotating is only consciousness. Body is only result of recognition process. Figure like this is described in order for the rotation of consciousness to be easily understandable.

Recognition image is generated by infinite repetition of process to consolidate central axis into a point. These processes are at light speed. It takes no time for light as recognition subject to proceed. Therefore, these infinite processes can be done with no time. (Note)

As just described, our world (recognition image) is generated by infinite rotation processing of consciousness at light speed.

(Note) It is said that speed of light is 300000 (km/s). This value is applicable between subject and object of recognition. Recognition isn't realized between subjects of recognition. Subject of recognition can move at infinite speed.

Energy is concept realized between subject and object. As energy isn't generated between subjects, energy isn't generated even at infinite speed.

### The Past and the Future

(Fig.2-11) Relationship between the past and the future of recognition among three points A, B, C will be discussed.

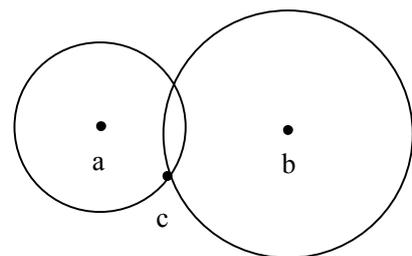
Point C seen from point A and point C seen from point B are the past. It takes time for information of point C to reach point A and point B. So, the past of point C is seen at point A and point B.

In this case, point A and point B mean the future of point C.

But, point A and point B seen from point C are the past. (Reason is same.)

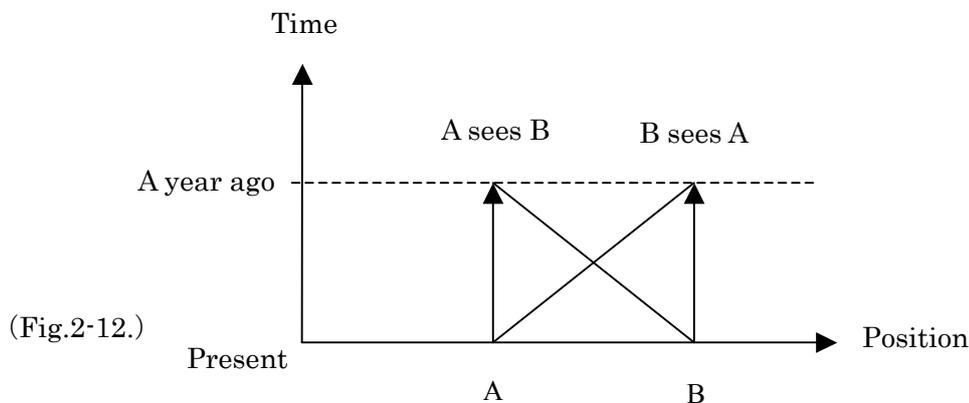
From the above, next conclusion can be drawn.

- For subject of recognition (subject to see),  
outside is the past.
- For object of recognition (object to be seen),

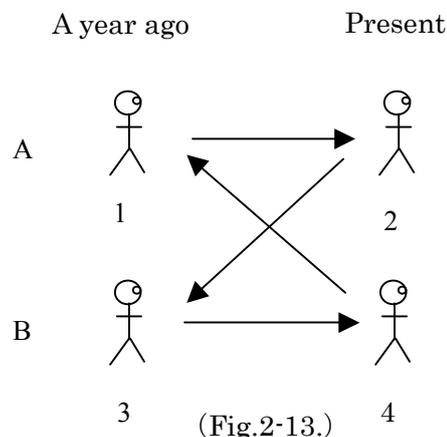


(Fig. 2-11.)

outside is the future.



In (Fig.2-13), situations of point A and point B are divided into 1 -- 4 of (Fig.2-12). (Horizon is time)



Diagonals mean present.

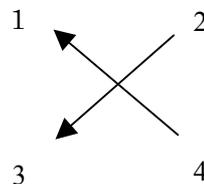
- (1) 2 is future compared to recognition of  $4 \rightarrow 1$ .
- (2) 4 is future compared to recognition of  $2 \rightarrow 3$ .

- (1) 2 is future of 4.
- (2) 4 is future of 2.

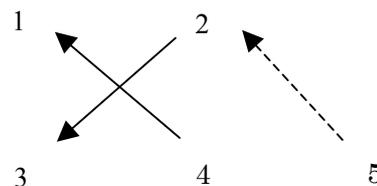
2 and 4 are both the past and the future of others. This means that the past connects to the future.

(Right fig.) Intersection of  $4 \rightarrow 1$  and  $2 \rightarrow 3$  means both recognitions at the same time.

The point means common existence of both recognitions.

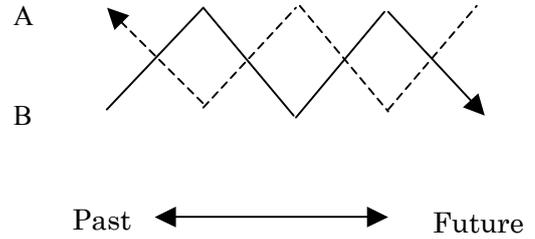


(Right fig.) Recognition of  $5 \rightarrow 2$  is added. So, recognition of  $5 \rightarrow 2 \rightarrow 3$  is generated and 3 and 5 exist on the same recognition.

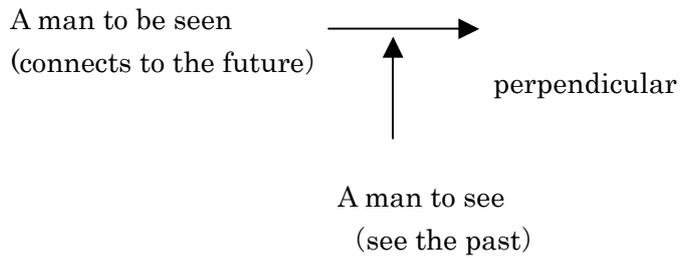


(Right fig.)

Dotted line : A man to see sees the past  
 Full line : A man to be seen connects to the future

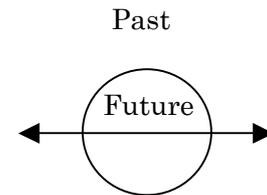


(Right fig.) A man to see is perpendicular to a man to be seen.



(Right fig.) Recognition of outside of circle means the past, recognition of inside means the future in recognition of simple harmonic motion of Double Circle.

The future spreads inside center of circle.  
 The past connects to the future.



**Continuous processing of Reversion of large and small**

(Fig.2-14) It means large and small head.

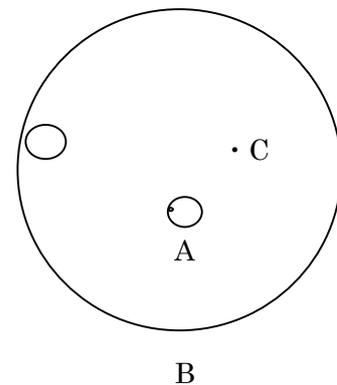
A is small head. B is large head.

Point C seen from B is inside. But, if it is seen from A, it is outside.

We recognize inside as outside in generation process of recognition image.

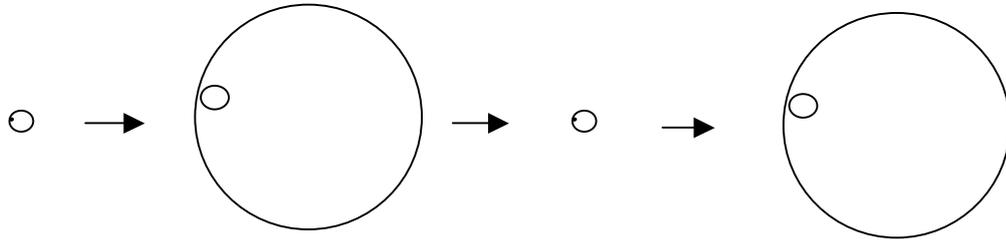
Seen from point A, inside of point A is the future, outside of point A is the past.

Seen from B, point C is the future. Seen from A, point C is the past. It can be thought that point C is result that inside of point A (Future) became outside of point A (Past). Time passed.



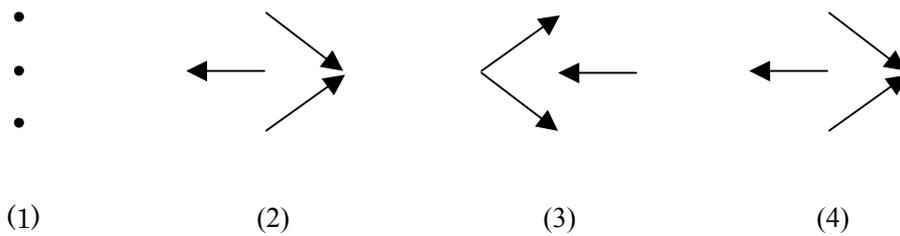
(Fig.2-14)

It is flow of time for inside of point A to become outside. B is immediately preceding state of point A.



(Fig.2-15)

(Fig.2-15) It means repetition of seeing from outside - - - sseeing from inside.  
 (It is result of recognition by rotation of 90 degrees.)  
 This repetition is basis of recognition.



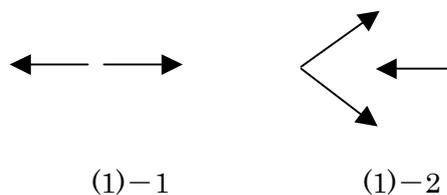
(Fig.2-16)

(Fig.2-16) It means structure of change of large and small with each other. It is processed from (1) to (5) in order. Expanse (Large) is recognized by Center → up and down, point (Small) is recognized by up and down → center.

Up and down points in (1) become center in (3).  
 Center point in (1) becomes up and down in (3).

As described above, center and up and down are changed with each other in (1) and (3).  
 It means reversion of large and small of recognition.  
 Reversion of large and small is realized in this principle.

In addition, (1)-1, (1)-2 processes are necessary before process in (fig.2-16).

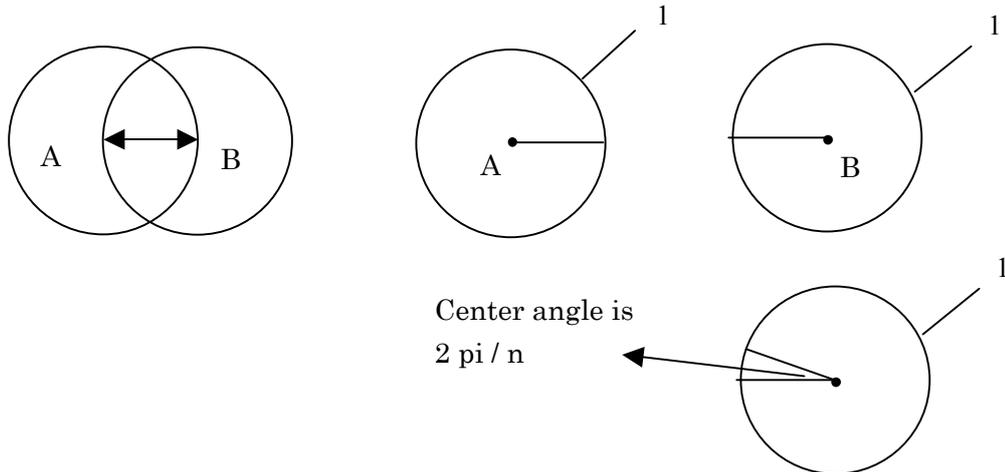


## Physical structure of e

The base of natural logarithm  $e (= 2.71 \dots)$  is basic numeral of recognition.

Movement between centers of Double Circle Structure means recognition of  $e$ .

This structure will be explained by dividing Double Circle into right and left circles.



Suppose subject of recognition (center of recognition) moves between centers.

Suppose there is Double Circle of both circle A centered on point A and circle B centered on point B.

Please refer to (Fig2-17).

- (1) Whole circle A is recognized from point A. Recognition of whole circle is 1.  
(Circumference is 1)
- (2) Point B is recognized after moving to point B. Whole circle is 1. The size of a point (Point A) on the circle is  $1/n$ . (it is assumed that whole circle is composed of  $n$  points.). Whole world of (1) is included in the point.

As just described, whole result of recognition is  $1 + 1/n$ .

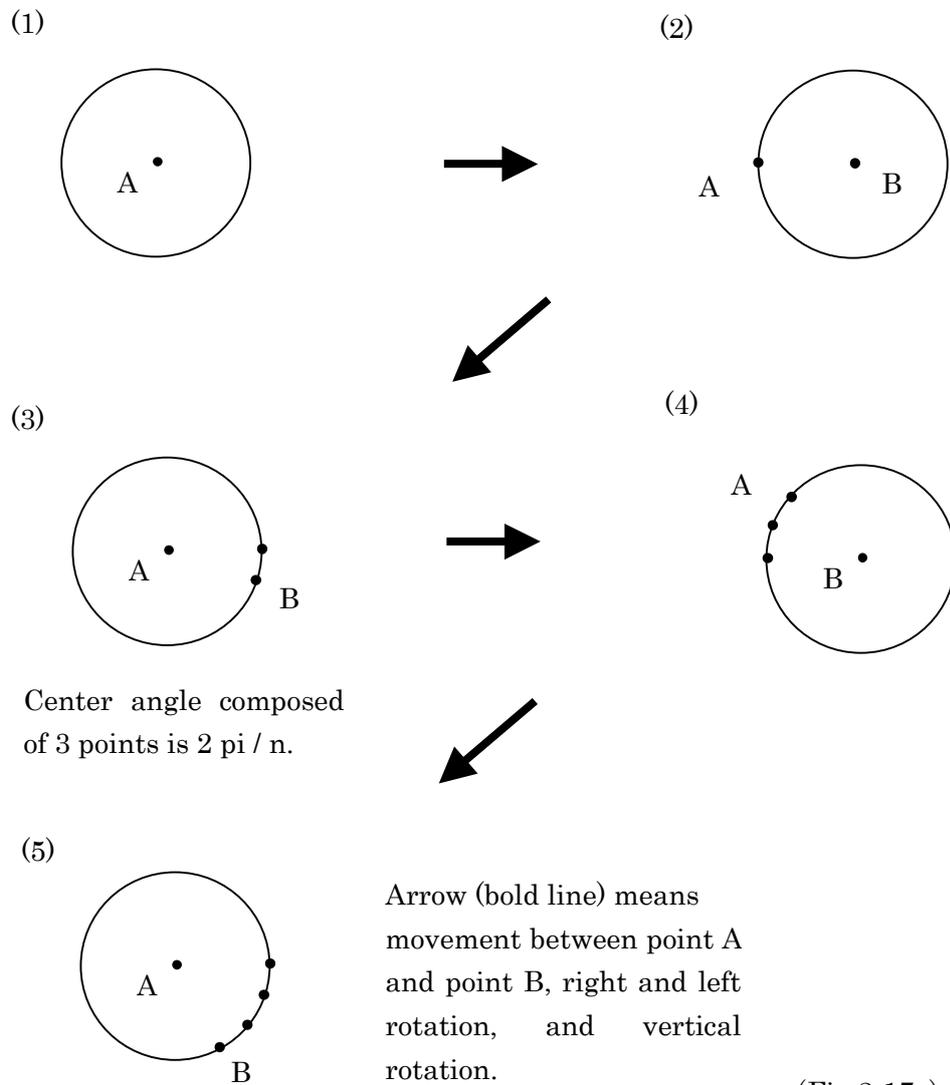
In addition, directions of recognitions of  $A \rightarrow B$  and  $B \rightarrow A$  are different by 180 degrees. Directions of recognitions are matched by rotating 180 degrees from side to side. In addition, subject of recognition rotates 180 degrees vertically. It rotates during movement of  $A \rightarrow B$ .

(It always rotates similarly during movements of  $A \rightarrow B$  and  $B \rightarrow A$  in the following.).

In order to generate recognition image centered on point A and point B, it is necessary for A and B to overlap each other.

Our recognition is centered on a point in head. It means we recognize something by gathering various recognition points in a point.

If you move in the speed of light, time doesn't pass. As a result, recognition image in which A and B overlap each other can be generated.



(Fig.2-17 )

(3) Subject of recognition moves to point A, in the direction of  $2\pi / n$  (rad) to direction between centers. By rotating circle A on its axis while moving circle A around circle B, direction of movement is adjusted to point A.

Whole circle A is recognized from point A. Whole circle A is  $(1+1/n)$ .

In addition, recognition of a point (point B) on the circle is added. The size is  $1/n$  and  $(1+1/n)$  of recognition is included in the point.

By summation of these recognitions, whole result of recognitions are as follows.

$$(1+1/n) + (1+1/n) * 1/n = (1+1/n)(1+1/n)$$

(4) Next, it is repeated that subject of recognition moves between centers while rotating  $2\pi/n$  (rad) to direction of latest movement between centers.

(It revolves and rotates so as to agree direction of centers.)

(This movement will continue till both circles are once gone around.)

In this case, whole result of recognition is e.

$$\left(1 + \frac{1}{n}\right)^n = e \quad (n \rightarrow \infty)$$

From (1) – (4), it is understood that physical structure of e is structure of repeated recognition while moving between centers of Double Circle. Space recognition in which every point on both circles includes whole space is generated.

As described above, e means fractal structure of space.

It has been understood that e means recognition by movement between centers.

This movement means change of time and space for each other in Five Dimension Theory. As just described, e is fundamental numeral of Five Dimension. e means Five Dimension structure (Fractal).

Space recognition is composed of change of time and space for each other in five dimension.

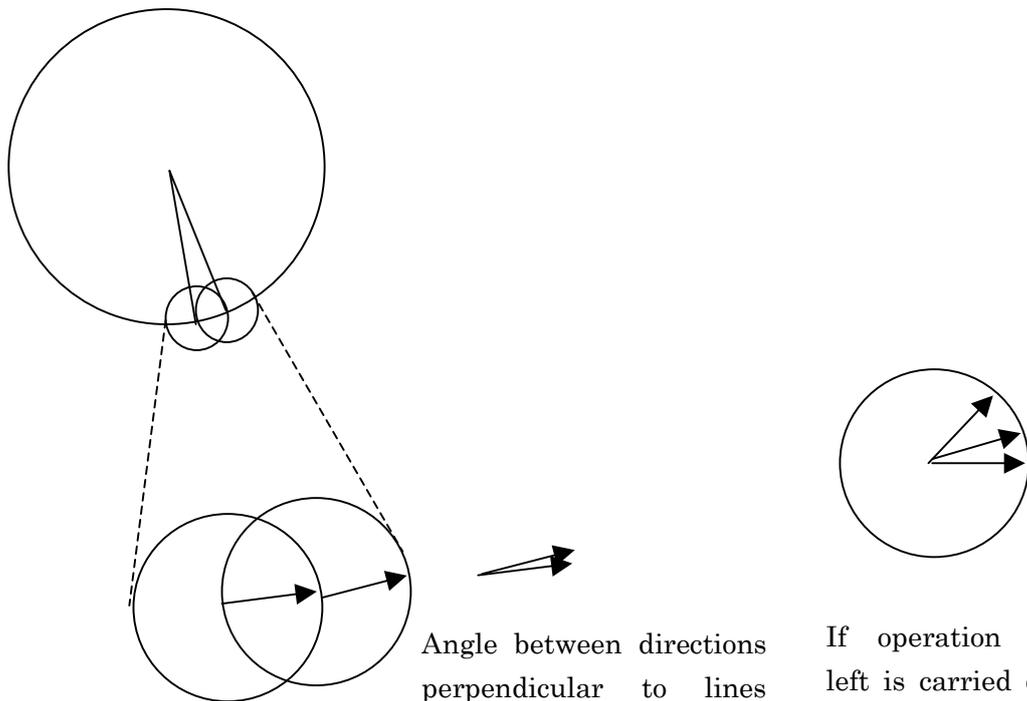
In addition, ((1)(3)(5)) on the left in (Fig.2-17) mean recognitions centered on point A, ((2)(4)) on the right mean recognitions centered on point B. Directions of recognitions of both recognitions are reversed each other.. Recognition image is generated by superposition of both recognitions after one consciousness rotates 180 degrees in both front-back / vertical directions.

**Recognition process of e (Large circle and small circle)**

(Fig.2-18) means structure of e with large circle and small circle. Distance between centers of Double Circle (both are small circle) is  $1/n$  as long as circumference of large circle.

As e is fractal structure, relation between large circle and small circle shown in the figure continues.

In addition, e is recognition by movements between centers of Double Circle, but as result of recognition of both circles are superimposed, there is one recognition image.



(Fig.2-18)

Angle between directions perpendicular to lines connected between center of large circle and center of small circles is  $2\pi/n$

If operation described left is carried out in all directions, there are points in all directions.

Center angle between lines between center of large circle and centers of small circles is  $2\pi/n$  (rad). Subject of recognition is rotated by  $2\pi/n$  in recognition process of e in order to recognize all points on circle. It is rotated by degrees for this purpose.

When Double Circle is composed of two large circles, recognition target is  $1/n$  as long as circumference. It is distance between centers of Double Circle (Small circle)..

As structure of e is fractal, relation between large circle and small circle continues infinitely. Therefore, distance  $1/n$  as long as circumference of large circle is also recognized as distance between centers of Double Circle composed of small circles.

After all, target of recognition process in space recognition of e is only distance between centers of Double Circle. This is recognized as a part of large circle ( $1/n$  as long as circumference), i.e, distance between centers of Double Circle (Small circle).

As described above, our space recognition is composed of change of distance between centers of Double Circle for various lengths by fractal.

Our consciousness moves back and forth between centers of Double Circle (For recognition process). Space is composed by change of this movement by fractal.

Composition element of the world is consciousness itself in recognition process. The world is covered with recognition process components

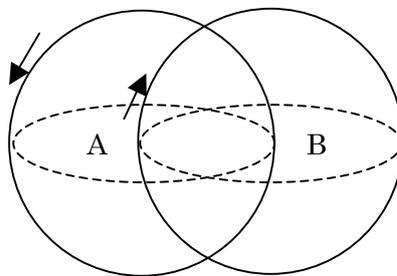
The world is the result of recognition process.

### Multiple spiral is change of direction by 90 degrees

Recognition image is generated on a plane in recognition by Double Circle. But, our world is composed of 3 dimensions (length, width, and depth). Double Circle is insufficient to explain this situation. Double Sphere Structure is necessary to generate 3 dimensional recognition image.

Double Sphere Structure is composed of degenerated central axis and spiral.

(Please refer to chapter 1)



Double Circle structure is processed on a plane. Solid line on (Upper fig.) means Double Circle. Double Circle rotate  $2\pi/n$  on axis AB and Double Circle is newly processed, after recognition process of Double Circle (recognition process of e) is finished. If this process is repeated n times, recognition processes of all points on Double Sphere will be finished.

In preceding section [Recognition process (Large circle and small circle)], it was explained that distance between centers of Double Circle is  $1/n$  as long as circumference of larger circle.

Same relation is in Double Sphere Structure. Central axis AB is  $1/n$  as long as circumference of larger circle.

Recognition process structure is fractal structure of multiple spiral. Therefore, distance between centers of Double Circle (Sphere) is also component of circle (sphere).

Double Circle Structure can be constructed by degeneration of consciousness axis perpendicular to plane on which Double Circle (Part of Double Sphere) exists. Direction of axis AB is perpendicular to direction of degenerate consciousness axis.

Central axis of spiral constructs larger spiral in Multiple Spiral Structure. In this case, degeneration direction of spiral is perpendicular to degeneration direction of larger spiral. Direction of movement of spiral rotates 90 degrees.

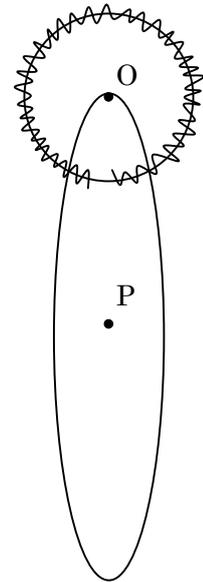
(Right fig.) Circle O centered on point O, spiral O whose central axis is circle O, and circle P passing through point O and perpendicular to the circle are drawn.

Suppose circle O is not circle but spiral P whose central axis is circle P.

In this case, spiral O and spiral P construct double spiral.

As circle O is perpendicular to circle P, it can be understood that directions of each spiral of double spiral are perpendicular to each other.

As described above, multiple spiral overlap each other, rotating by 90 degrees.



### Essential meaning of special relativity theory

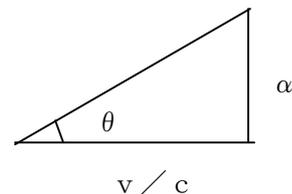
If a man who remains still sees a thing moving at a speed of  $v$ , length in the direction of movement is shorter than that of the thing at rest. (Special relativity theory.)

If length at rest is multiplied by  $\alpha$  defined as follows, length on motion can be obtained

$$\alpha = \sqrt{1 - \frac{v^2}{c^2}}$$

$$\alpha^2 + \frac{v^2}{c^2} = 1$$

$v$  : moving speed  
 $c$  : light speed



(Fig.2-19)

This means relation of (Fig.2-19).

From the Pythagorean theorem, two sides of right triangle are  $\alpha$  and  $v/c$ .

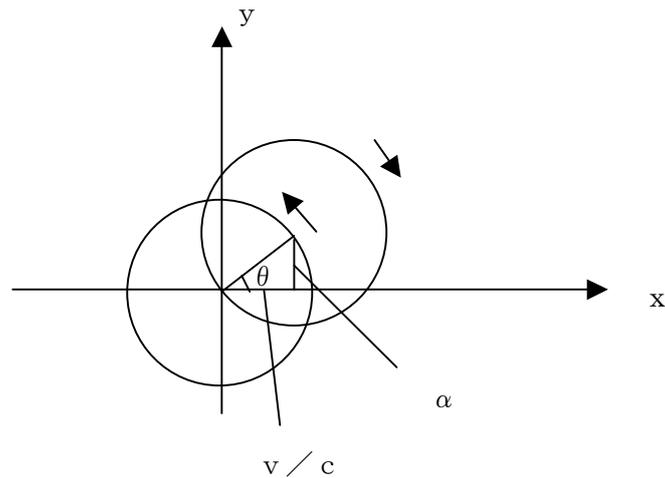
$$v = 0 \text{ then } \theta = 90^\circ$$

$$v = c \text{ then } \theta = 0$$

$v/c$  is value of moving speed divided by light speed  $c$ . Therefore, it is component of direction of speed.

As  $\alpha$  is coefficient multiplied by length, it is component of direction of distance.

$\alpha$  is perpendicular to  $v/c$ . As just described, distance is essentially perpendicular to speed.



(Fig.2-20)

(Fig.2-20) It means Double Circle composed of 2 circles with radius 1. Upper right circle rotates on its axis (Clockwise direction), moving around circle located in xy coordinate center (Anticlockwise direction).

- $\cos \theta = v/c$
- $\sin \theta = \alpha$

Each is defined as just described.

Suppose there is a point in simple harmonic motion on Y axis.

(A point at coordinate origin when  $\theta = 0$ )

Component proportional to ( $\alpha = \sin \theta$ ) is called length.

$v/c = \cos \theta$ ,  $v = c \times \cos \theta$  component is called speed.

As just described, length is perpendicular to speed.

Recognition is composed of rotation. Speed can be calculated by differentiating length by time. Therefore,  $v/c$  can be calculated by differential of trigonometric function ( $\sin \theta$ ).

On the other hand, length can be found by integration of  $v/c$ .

Speed and length are results of recognition process by rotation. In this case, length and speed become minus depending on the angle of rotation. ( $\theta > 90$  degrees)

What is the meaning of minus of length and speed?

The world of change of time and space for each other corresponds to this situation. It is the world of inner consciousness.

Length is perpendicular to speed. Length and speed in the same direction can not be recognized at the same time.

The world is the result of recognition process.

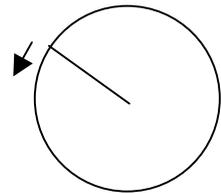
Recognition is function of consciousness.

(Right figure) Stream of consciousness is everything.

This is divided into components of speed and length.

Speed is recognized as differential of length, length is recognized as integration of speed

As just described, recognition needs components that are perpendicular to each other.



Speed is one way to express movement of target when subject of recognition is fixed.

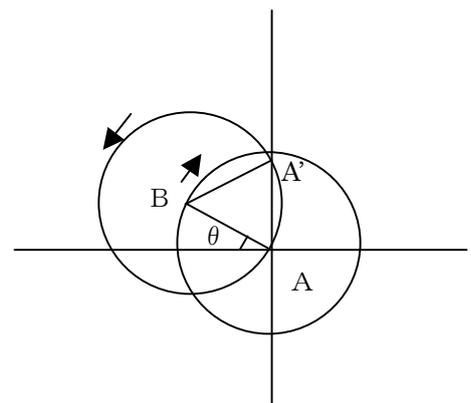
Concept of speed of yourself can't exist. In the case of movement of you, it is only defined that you move in the reverse direction of surrounding movement.

Length and speed mean object of recognition (target). Subject of recognition has no shape.

Therefore, both length and speed have fluctuation. (Because there is phase difference of 90 degrees between length and speed.

(Fig.2-21) Double circle composed of circle A centered on point A and circle B centered on point B will be considered.

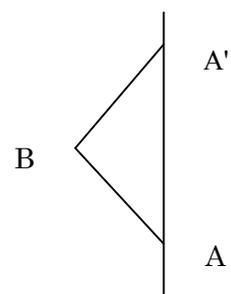
Movement of point A' that was located at point A on circle B before rotation, in the case that point B rotates in the anticlockwise direction while moving around circle A in the reverse direction, will be considered.



(Fig.2-21)

$$\begin{aligned}
 \text{AB vector} &= (-\cos \theta, \sin \theta) \\
 \text{BA' vector} &= (\cos \theta, \sin \theta) \\
 \text{AA' vector} &= \text{AB vector} + \text{BA' vector} \\
 &= (0, 2\sin \theta)
 \end{aligned}$$

As just described, movement of A' is simple harmonic motion



whose amplitude is 2.

Suppose  $AA'$  is recognized.

$A-B-A'$  is recognized, to be exact, but it is felt that  $AA'$  is recognized without B.

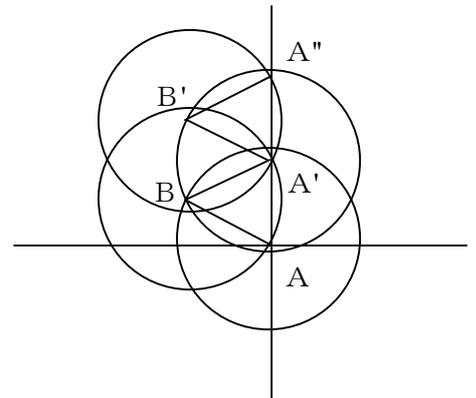
Proportion of length of  $A-B-A'$  and  $AA'$  can be thought as cause of generation of length change in special relativity theory.

### Space recognition by continuous process of Double Circle

Recognition of  $A-B-A'$  of Double Circle has been considered in (Fig.2-21).

In addition, the case of repetition of same recognition will be considered here.

(Fig.2-22) Circle  $A'$  centered on point  $A'$ , circle  $B'$  centered on point  $B'$  will be considered. When point A corresponds to point  $A'$ , point B corresponds to point  $B'$ .



(Fig.2-22)

The case that point  $B'$  rotates while moving around circle  $A'$  like point B in (Fig.2-21) will be considered. A point that is on circle  $B'$  and at the same location of point  $A'$  before rotation of point  $B'$  is defined as point  $A''$ .

In this case, result of recognition of  $A-B-A'-B'-A''$  is  
 $AA''$  vector =  $(0, 4\sin \theta)$

It becomes simple harmonic motion with amplitude 4. Whenever the process of Double Circle is added once, amplitude increases by 2.

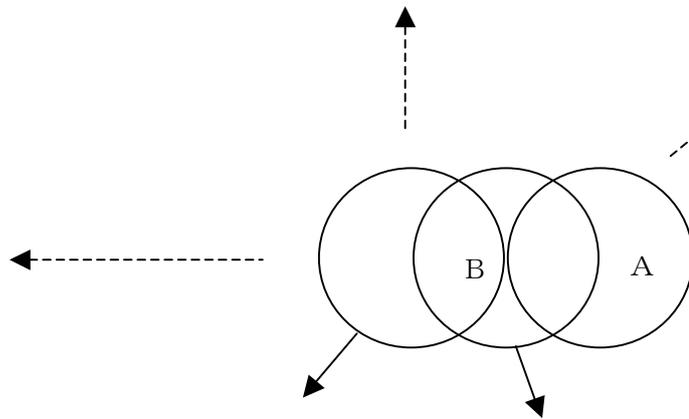
As described above, amplitude of simple harmonic motion can be increased by continuity of recognition process of Double Circle.

It is characteristic for superposition of circles to be shape like waves.

(Fig.2-23) It also means continuous processes of Double Circle.

It is understood that recognition image can expand infinitely by repeating movement point A – point B – point A – point B - - - of subject of recognition.

Electromagnetic wave is structure of recognition process. Double Circle Structure is basic of it. Recognition expands as wave in all directions by continuous process of Double Circle Structure.



Movement of point B  
seen from point A

Movement of point A  
seen from point B

(Fig.2-23)

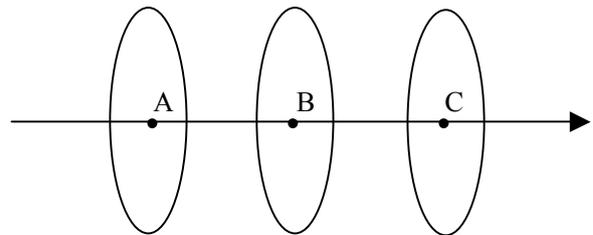
Double Circle Structure is composed of pair of spiral and central axis. By change of central axis and spiral for each other, central axis becomes spiral and turns to all directions. As a result, flat surface parallel to Double Circle turns to various directions.

As a result, recognition by processes of Double Circle expands in all directions.

### Length change of subject of recognition

(Right figure) Arrow in the figure means line of sight.

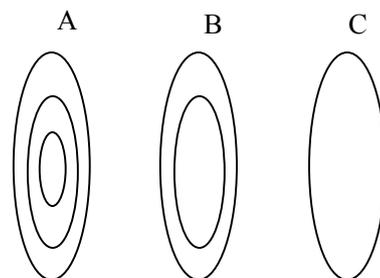
- From the left of point A, triple circle
- From between point A and point B, double circle
- From between point B and point C, a circle can be recognized respectively.



Multiplicity of circle (number of superposed circles) changes depending on the range of recognition process on the central axis.

This superposition is essential reason of multiple hierarchical structure of electron orbit.

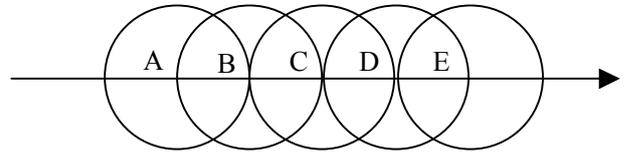
An atom is recognized through long range of central axis of spiral. As a result, electron



orbit is multiplexed.

(Right figure) Continuous Double Circle Structure will be considered.

If figure is considered as wave, frequency changes depending on the range of recognition process.



Point A – point E are center of circles.

If point A is reference point and the range is to point B, circle of recognition target is 1. frequency is 1. (Number of waves that can be recognized in 1 recognition process is 1)

If point A is reference point and the range is to point C, circle of recognition target is 2. (Frequency is 2)

If point A is reference point and the range is to point D, circle of recognition target is 3. (Frequency is 3)

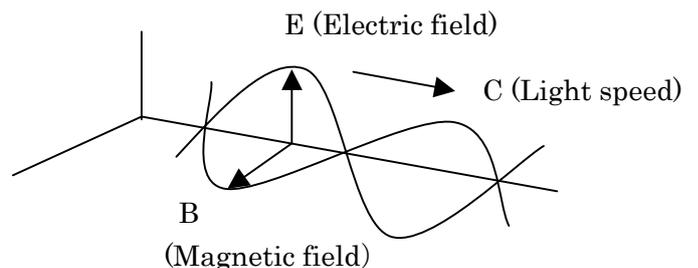
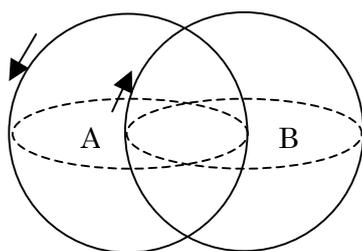
If point A is reference point and the range is to point E, circle of recognition target is 4. (Frequency is 4)

It means that the same circles become vibration of frequency 1 and vibration of frequency 4 depending on recognition method.

Recognition image (The world) is composed of superposition of trigonometric functions of various frequencies. Various frequencies needed in these cases are generated by change of range of recognition described above.

**Relation between electromagnetic wave and Double Circle Structure.**

Double Circle Structure is composed of central axis and spiral, central axis being degenerated. In this structure, points on the left sphere are in simple harmonic motion and perpendicular to the right sphere. Points on the right sphere are perpendicular to left sphere. Directions of simple harmonic motion are perpendicular to direction of central axis before degeneration.



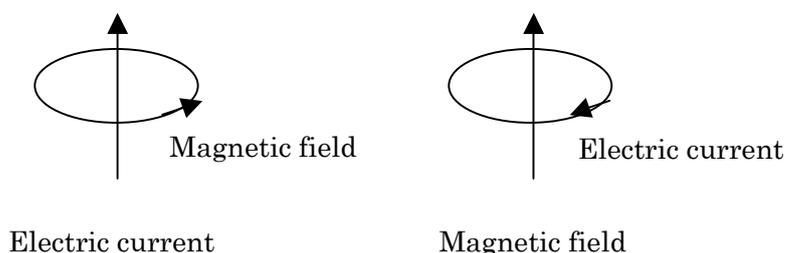
Advance of electromagnetic wave

Electromagnetic wave advances in the direction perpendicular to electric field and magnetic field, electric field being perpendicular to magnetic field. This relation is the same as Double Circle.

If electric current flows, magnetic field is generated. In addition, if magnetic field is generated, electric current flows in the direction to negate the magnetic field.

Magnetic field and electric field generated in these operations are rotated against each other.

From the above, it can be understood that magnetic field seen from electric field and electric field seen from magnetic field, in electromagnetic wave, rotates against each other.



Double Sphere Structure is structured by degeneration of central axis (Circle) of Double Circle Structure.

Double Circle Structure is composed of superposition of recognition of 'central axis and spiral' and recognition of change of central axis and spiral for each other. In recognition of change of central axis and spiral for each other, direction of recognition is reversed. As a result, directions of rotation seen from centers of Double Circle are reversed from each other.

From the above mentioned consideration, it can be understood that electromagnetic wave and a pair of central axis (spiral) and spiral (central axis) are the same structure.

Central axis of spiral is Multiple Spiral Structure. Central axis itself composes much larger spiral. Double Sphere Structure is generated by degeneration of 1 revolution of this large spiral into a point.

Therefore, it can be understood that Double Circle Sphere is structured by degeneration of advance direction of electromagnetic wave.

It has been explained that Double Circle Structure is structure of consciousness and consciousness moves at light speed. (It means the same as consciousness is light.). I think it can be understood that these explanations are correct by comparison of electromagnetic wave (Light) and Double Circle Structure.

If centers of Double Sphere Structure is superposed, 2 spheres are superposed. This

superposition corresponds to electron orbit. As 2 spheres are recognized from reverse directions mutually, directions of rotations are reversed. In a pair of electrons, each electron rotates in reverse direction. Electron orbit corresponds to Double Sphere Structure on this point as well.

**Physical structure of complex number**

Plane composed of real axis (Real number) and imaginary axis (Imaginary number) is called complex plane. Complex plane is not thought to be real world but thought to be only mathematical plane.

But complex plane is necessary for dealing with Five Dimension.

Direction of movement between centers of Double Circle Structure means direction of imaginary axis (i axis).

Recognition needs subject and object. In a pair of central axis and spiral, central axis is subject and spiral is object. Double Circle structure is generalized by seeing superposition of [change of central axis and spiral for each other (change of subject and object for each other)] and [a pair of central axis and spiral before the change] from direction of central axis.

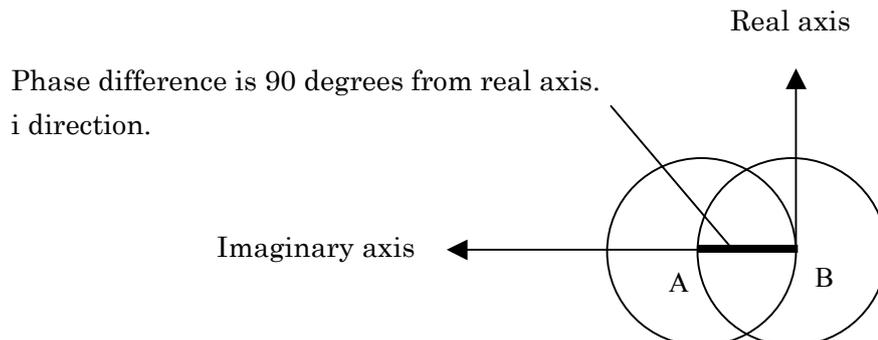
Recognition image (World) is generalized by change of recognition subject and recognition object for each other.

Change of subject and object for each other is realized by movement of recognition subject. (Movement between centers of Double Circle).

Target of recognition (Real number) of Double Circle is circle. A circle of target of recognition is changed by movement between centers of Double circle.

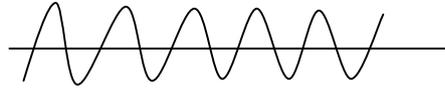
Direction of the movement between centers of Double Circle is direction of imaginary axis (i axis).

Complex plane is necessary for Five Dimension that is structural principle, including recognition process, of the world.



## Wave particle duality

There are both properties of particle and wave in all materials. Material has wave particle duality



A pair of spiral and central axis is basic structure of recognition.

- Central axis → Spiral is recognition of wave.
- Spiral → Central axis is recognition of particle.

As described above, we recognize particles and waves in the whole universe in a moment. It is structural factor of the world.

Consciousness has shape, and various energies and materials are generated by combination of the shapes.

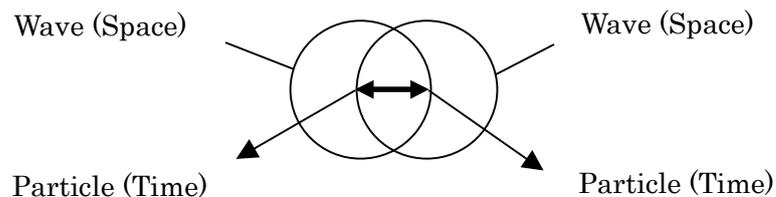
It is consciousness that is formation factor of the world.

Wave particle duality means that wave becomes particle and particle becomes wave. It corresponds to the change of central axis and spiral for each other in a pair of central axis and spiral.

The change of central axis and spiral for each other is realized by movement between centers of Double Circle Structure. The change of time and space for each other by the movement has been defined as Five Dimension in this book. Wave particle duality is realized by Five Dimension.

Therefore, wave particle duality means duality of space (wave) and time (particle). Wave corresponds to space and particle corresponds to time.

Wave and particle are not changed for each other without Five Dimension (Change of centers of Double Circle)



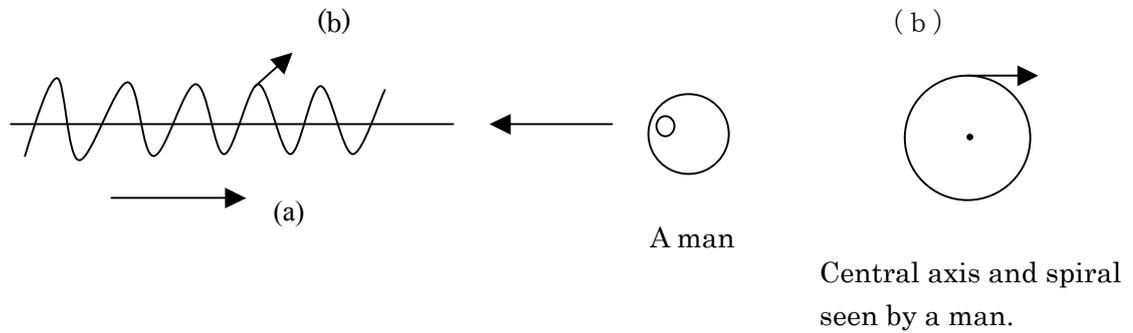
Depending on wave particle duality, a man constructs space as wave. This wave is

aura.

Aura means situation of a man in the world (Five Dimension / Inner world) in which time and space are changed for each other.

An aura of a man who serves / contributes to surrounding people gets larger, and an aura of a selfish man gets smaller.

**Movement method between centers of Double Circle**



If vector in the direction of spiral is resolved, there are component (a) parallel to central axis and component tangent to circle.

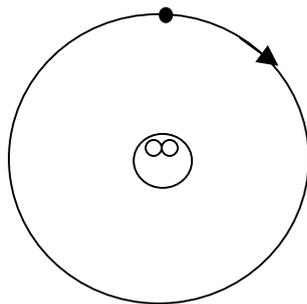
If you conform line of sight to central axis and see spiral while rotating similarly to spiral, the spiral is seen as straight line to center.

If component (b) is seen by a man rotating similarly to spiral, rotation can't be felt. As component of rotation is seen while rotating, rotation is relatively lost.

In this case, only (a) remains from (a) and (b) that are the components of spiral.

(a) is component parallel to central axis. So, it is direction of time.

-- Directions of time appear in two directions, direction of central axis of spiral and direction between centers of Double Circle.



A point moves around a man.

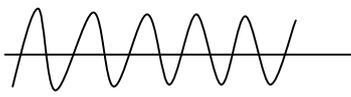


A man rotates.  
(a point doesn't move)

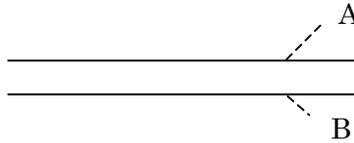
(Fig.2-24)

Movements of a point seen from a man in (Fig.2-25) are the same. It can be thought that rotation of spiral is realized by rotation of recognition point (Center of recognition) on central axis.

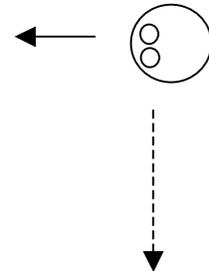
Rotating similarly to spiral corresponds to stopping rotation of recognition point.



Central axis and spiral.



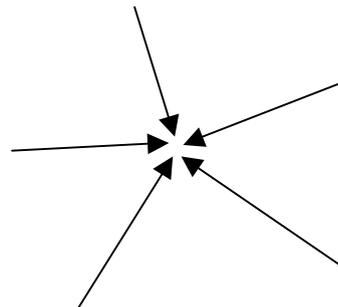
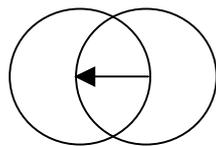
Central axis and spiral without rotational component.  
2 lines parallel to each other.  
(Length is infinite.)



Seen from direction of central axis,  
2 lines are connected. It means  
movement line between centers of  
Double Circle.

By movement of subject of recognition between centers of Double Circle, roles of time and space are changed for each other. Therefore, it can't be decided that one of spiral / central axis is time or space.

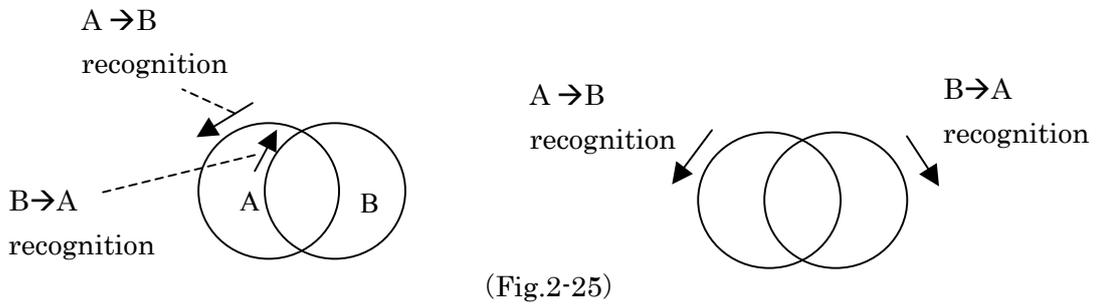
Both can be time and space.



Direction of movement between centers of Double Circle changes with rotation. There are various kinds of directions of time.

All of a plane surface can be filled with directions of time.

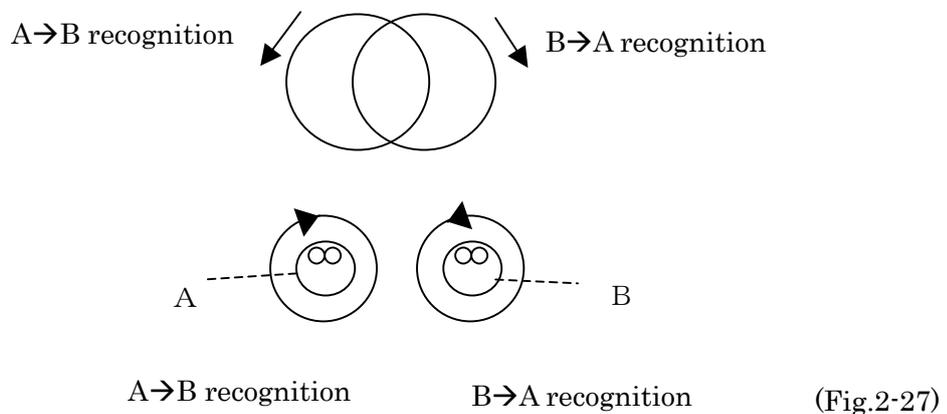
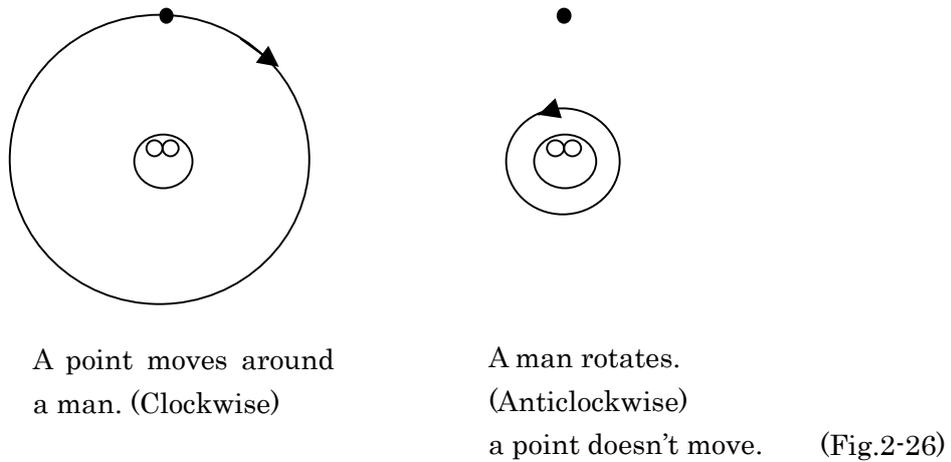
**Double Circle Structure is mirror image principle**



Movement of Double Circle Structure will be considered further.

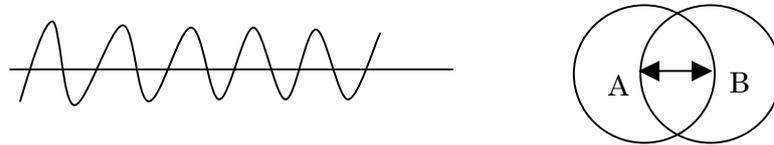
(Fig.2-25 left) Rotation of Double Circle Structure can be thought to be combination of rotations of two circles. (Fig.2-25 right). Rotations of right and left figure in (Fig.2-25) are the same relatively.

(Fig.2-26) Movement of a point seen from a man is the same.



Two kinds of rotation in (Fig.2-27 above) and (Fig.2-27 below) are the same relatively.

Though rotations of Double Circle have been explained as rotations in (Fig.2-25 left), more accurately, it is rotation movement in (Fig.2-28).



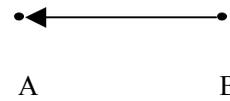
Center of Double Circle has two roles, spiral movement and central axis. (By movement of subject of recognition between centers).

When it is central axis, it recognizes another center while rotating.

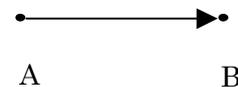
When it is spiral, rotation is not needed. Spiral does not rotate.

At this time, recognition between centers of Double Circle occurs. Subject of recognition moves from what rotates to what does not rotate.

A does not rotate. B rotates  
(A is spiral. B is central axis)



A rotates. B does not rotate  
(A is central axis. B is spiral)



It will be repeated. Rotations of A and B proceed alternately.

A and B do not rotate at the same time.

Certainly one is central axis and the other is spiral.

If central axis rotates, the other stops. (It does not rotate.)

Therefore, consciousness moves to the other. The other rotates as central axis.

By repetition of rotation and stop, recognition image is generated.

Above contents of recognition process will be arranged.

- (1) You see the direction of central axis. The axis is degenerated and spiral becomes circle.
- (2) Central axis rotates.
- (3) Central axis moves. (Central axis moves to spiral.)
- (4) Direction of recognition is inverted.

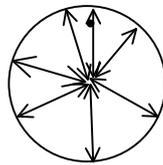
- (5) You see the direction of new central axis. (Spiral of (1) is seen as central axis from inverted direction). Axis is degenerated and spiral (Central axis of (1)) becomes circle.

Making round trips between centers is necessary in order to recognize spiral from central axis. (All points on the spiral are targets.). It is necessary to degenerate central axis while making round trips.

Two points connect because central axis can be overlooked from a long distance. As two points connect, round trips between centers are made. Central axis doesn't degenerate only by being overlooked. It is necessary for central axis to have long length.

Central axis degenerates while repeating round trips between two points by overlooking of central axis.

In order to recognize rotation, it is necessary to grasp mutual position relation between center and circumference. This operation is necessary for all points on circle. It is necessary to grasp position relation between all points on circle and center of the circle mutually. Movements between 2 points are for the purpose of grasping this position relation. By movement between center and a point on the circle, position relation of the 2 points can be grasped.



Position relations between all points on circle and center of the circle are grasped. Movements between A and B are necessary for this purpose.

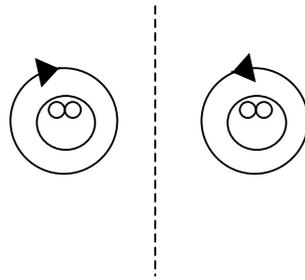
From the above, it can be understood that Double Circle Structure and Double Sphere Structure can be composed of only central 2 points. Double Circle Structure and Double Sphere Structure can be generated by rotations and mutual actions of 2 points.

Both 2 points that compose Double Circle Structure are consciousness of our own. One is called outer consciousness, the other is called inner consciousness. Our ordinary consciousness is outer consciousness, consciousness called mind is inner consciousness.

Interaction between outer consciousness and inner consciousness is formation factor of the world. Therefore, all our actions to the surroundings (Notions and actions of outer consciousness) are actions to inner consciousness.

What we see is the world of outer consciousness.

Our thoughts (Inner consciousness process) influence outer consciousness (The world to be seen by inner consciousness).



Inner consciousness and outer consciousness are structure that is reflected on the mirror. This is called mirror image principle.

The world is formed by reflection of the state of inner consciousness world in the outer consciousness world. Inner consciousness world is also called real world.

Real --- There are images in inner consciousness world.

Unreal --- There are not images in inner consciousness world.

(Disease, earthquake, typhoon, disharmony idea ---)

If inner consciousness world is realized directly, perfect society without disharmony is realized.

--- Disharmonies do not exist at all in inner consciousness world (Heavenly world).

--- Perfectly harmonic world will be realized.

The cause of disharmony is consciousness other than heavenly world.

Consciousness that anything that does not essentially exist exists, and actions based on this consciousness, these are causes of disharmony. Perfectly harmonic world can be realized by deleting these causes.

Essentially, Perfectly harmonic world in inner consciousness should be realized in our world (Outer consciousness world). What on earth is the reason of disharmony ?

Relation between outer consciousness and inner consciousness is relation between yourself and both those around you and environment. Smooth cooperation with those around you is real state. Nonsmooth cooperation is unreal state.

By smooth cooperation with those around you, perfectly harmonic society can be realized.

## Relation between e and sin, cos

Each of  $e^x$ ,  $\sin(x)$ ,  $\cos(x)$  can be calculated by infinite series as follows.

$$e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \dots$$

$$\cos(x) = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \dots$$

$$\sin(x) = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \dots$$

$e$ ,  $\sin$ ,  $\cos$  have relation as follows.

$$e^{ix} = 1 + \frac{ix}{1!} + \frac{i^2 x^2}{2!} + \frac{i^3 x^3}{3!} + \dots = 1 + \frac{ix}{1!} - \frac{x^2}{2!} - \frac{i x^3}{3!} + \dots = \cos(x) + i\sin(x)$$

$$e = (1+1/n)^n \quad (n \rightarrow \infty)$$

$$e^i = ((1+1/n)^i)^n$$

$e$  can be calculated by multiplying  $(1+1/n)$  by itself  $(n-1)$  times.  $(n \rightarrow \infty)$

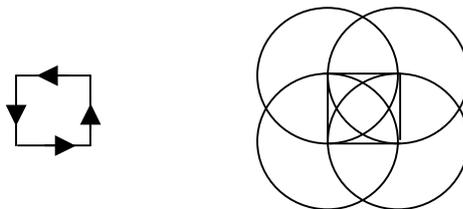
$e^i$  can be calculated by multiplying  $(1+1/n)^i$  by itself  $(n-1)$  times.  $(n \rightarrow \infty)$

Multiplying  $(1+1/n)$  means movement between centers of Double Circle.

Index  $i$  means 90 degrees rotation. (Please refer to "Index is change of direction").

$i$ -th power of  $(1+1/n)$  means 90 degrees rotation per movement between centers of Double Circle.  $e^{ix}$  can be calculated by 90 degrees rotation of  $e^x$

$e^x$  can be recognized by movement between centers of Double Circle.  $e^{ix}$  can be calculated by 90 degrees rotation per this movement between centers.

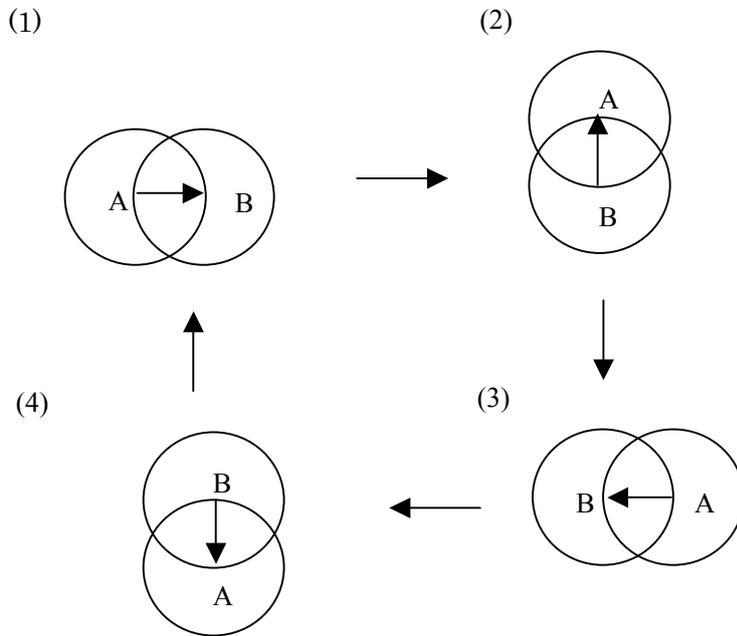


Direction is changed in the case of recognition of  $\sin$  and  $\cos$ .

It is not necessary to change direction in the case of recognition of  $e$ .

### 90 degrees change of direction between centers of Double Circle

In the case of recognition of trigonometric functions sin and cos, direction of movement between centers of Double circle rotates by 90 degrees.



(Fig.2-28)

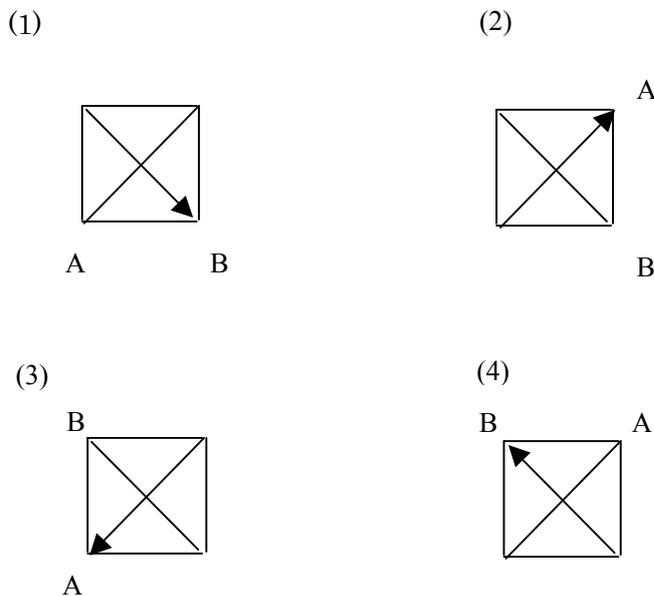
(Fig.2-28)

Suppose B is fixed, A moves around in clockwise direction.

Suppose A is fixed, B moves around in clockwise direction.

Movement of a side corresponds to 1/4 rotation.

If radius is 1, circumference is  $2\pi$ . 1/4 of this length is  $\pi/2$ .



(Fig.2-29)

Position relations between A and B in (Fig.2-28) (1) – (4) are the same as those in (Fig.2-29) (1) – (4).

A and B move on diagonal of quadrangle in (Fig.2-29). Relative position relations between A and B correspond to those in (Fig.2-28) by this movement.

These movements on diagonal are necessary for recognition process.

(Fig.2-30) is pyramid figure. (Please refer to association chart in chapter 1.).

The ratio between pyramid's height and length of a side of base is  $(1 : \pi/2)$ .

It corresponds to the ratio between radius in (Fig.2-28) and circumference/4.

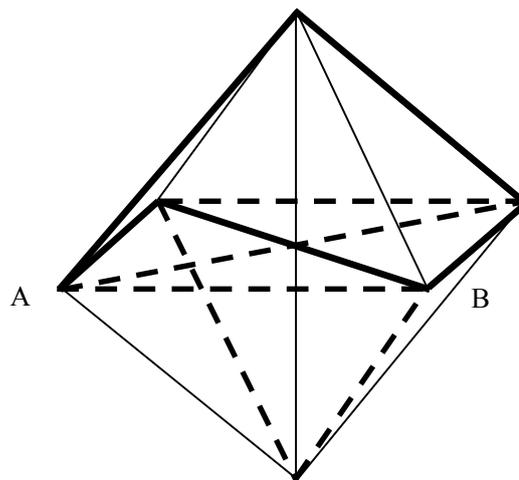
Quadrangle in the base corresponds to movements of A and B in (Fig.2-29).

Bald line (Dash line) is A, bald line (Solid line) is B.

(A and B) in (Fig.2-29) locate at (A and B) on this side of a base of pyramid.

It is followed by the movements of (A and B) like (Fig.2-29) (2) - (4).

Then, rotations by 90 degrees of the movement between centers of Double Circle are realized.



(Fig.2-30)

## Planetary orbit and electron orbit are result of reversion of large and small

The earth moves around the sun once a year. (Revolution).

If the revolution of the earth is seen by someone who is moving at light speed, it looks fast rotation. Because time is shorten based on special relativity theory. If results of image of the revolution of the earth seen by someone who is moving at light speed in all directions are overlapped, orbit radius also looks small.

In this case, the revolution of the earth looks movement of particle (Electron etc.). Because it rotates fast with small radius.

Radius of orbit of the earth. :  $1.5 * 10^8$  (km) =  $1.5 * 10^{11}$  (m)

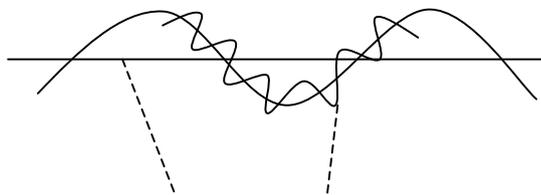
Radius of orbit of electron. :  $10^{-10} \sim 10^{-13}$  (m)

$10^{10} \sim 10^{13}$  (m) =  $10^7 \sim 10^{10}$  (km) --- planetary orbit of the solar system.

If indexes of radiuses of orbits of electrons are changed from minus to plus, these radiuses become ( $10^7$  (km)  $\sim 10^{10}$  (km)). These almost correspond to radiuses of planetary orbit of the solar system.

Multiple spirals can be formed by change of roles of central axis and spiral for each other. In this case, central axis and double spiral are different results of seeing the same thing. Multiple Sphere Structure by degeneration of axis is fractal that is structure of repeating the same shape many times in smaller sizes.

It can be thought that repeating the same shape many times in fractal corresponds to planetary orbit and electron orbit. It can be thought that central axis of spiral and small spiral correspond to planets and electrons. It can be thought that large spiral corresponds to a man. Large structure (planetary orbit) and small structure (electron orbit) exist together, size of a man (about a meter) being centered. This is structural principle of the world.



Central axis and small spiral are different results of seeing the same thing.

Theory of reversion of large and small has been advocated in my book [Five Dimension Theory]. It is the theory that large things become small and small things become large.

Planetary orbit and electron orbit correspond to the theory of reversion of large and small.

In addition, degeneration of central axis is realized by movement of consciousness in light speed. As time of spiral is shortened based on special relativity theory in this case, electron rotates fast.

Inside of electron orbit is image of the future. Images for a few decades, a few hundred years can be seen in a moment.

### **Planetary orbit and electron orbit are structure of time**

Subject and object are necessary for recognition. In the case of what is described above, as subject is a man, object is space. In ordinary recognition, time is subject and space is object.

If space is subject, object is time. Therefore, it can be thought that planetary orbit and electron orbit are result that time becomes object (recognition target) by change of time and space for each other.

We can't recognize time as object because we usually generate recognition image by use of time as subject. We can't see planetary orbit and electron orbit because subject (Time) can't be recognized by recognition subject (Time). Recognition is composed of subject and object. Recognition can't be composed of only subjects.

### **The galaxy and a man are result of reversion of large and small**

Relation between the galaxy and a man will be considered. It was explained that relation between planet and electron is fractal. Same relation corresponds to the galaxy.

Diameter of the galaxy : About 100 thousand light-year =  $9.46 * 10^{20}$  (m)

Diameter of orbit of the Mercury :  $11.6 * 10^{10}$  (m)

A man : 1.7 (m)

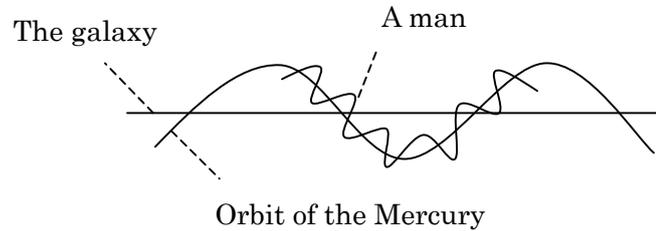
The ratio of orbit of Mercury to a man is about  $6.8 * 10^{10}$ , the ratio of the galaxy to orbit of Mercury is about  $8.16 * 10^9$ . Both ratios are about  $10^{10}$  and mostly agree.

In the case of double spiral, central axis and small spiral are different results of seeing the same thing.

From the above, it can be thought that central axis corresponds to the galaxy and small spiral corresponds to a man.

It is concluded that a man and the galaxy are different results of seeing the same thing.

Relation between a man and the galaxy is also an example of reversion of large and small theory.

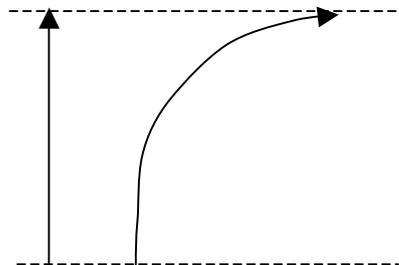


### Discovery of repulsion

Light is converted to straight line in recognition process. Our space recognition is composed of straight advancing light and it is not bent.

It is explained in general relativity theory that “space-time bends”, but space doesn’t bend. Therefore, “space-time bends” is wrong expression.

Correctly, it should be explained as “time bends”. Gravity is generated by movement on time axis at light speed.



That recognition process converts light to straight line means recognition process of a man has effect on light opposite to gravity. Gravity is power to pull against each other. The reverse power of it is repulsion. Recognition processes of men influence light as repulsion.

The world is composed of action and reaction. Reaction of gravity is repulsion. Recognition image (World) is composed of both powers.

In present general relativity theory, it is explained that space-time is bent by energy of materials and light bends while moving along the curve.

But fractal structure is not assumed in this space-time.

The world is fractal structure. If light passes, the energy of the light becomes energy of the center of gravity because of fractal structure. It means the increase of source energy to bend space-time. Curve of space-time becomes large. (Curvature becomes large.).

In present relativity theory, it can't be considered that curve of space-time becomes large by passing of light. As a result, it is thought that light can infinitely continue expanding. This is basis for cosmology and so on.

In reality, light itself is gravitational source, so it is impossible for light to expand infinitely.

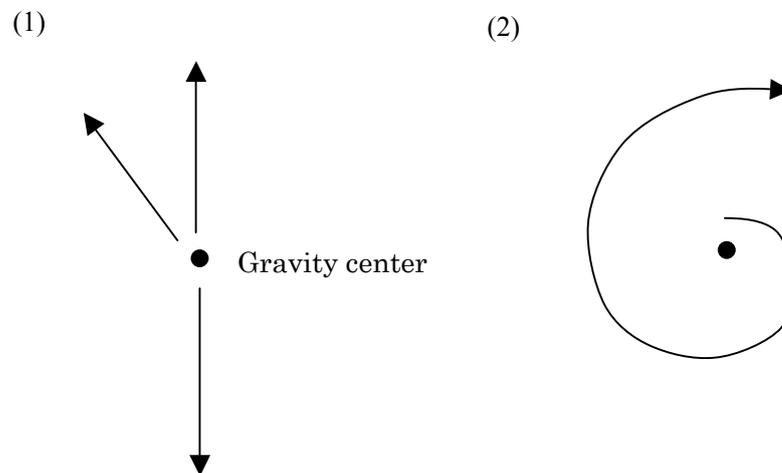
In this regard, review is necessary for physics.

That curved light is converted to straight when recognition image is generated means closed space is recognized as open space (Space in which infinity is assumed.)

It is impossible to assume spiral path whose distance from center reaches an infinite value. The bigger spiral becomes, the higher energy of light becomes. It means that gravity of center of spiral becomes stronger. Therefore, curvature of spiral becomes larger and the distance from center reaches a limit. The more light travels, the higher energy of the light becomes and the stronger gravity becomes, so distance from center begins to shorten. As described above, the world is essentially closed.

The world (Universe) is result that closed space is recognized as open space.

The principle to recognize body (closed space) as universe (open space) is the same.



(1) Light that passes through gravity center keeps going straight.

(2) Lights whose direction is other than that travels in spirals.

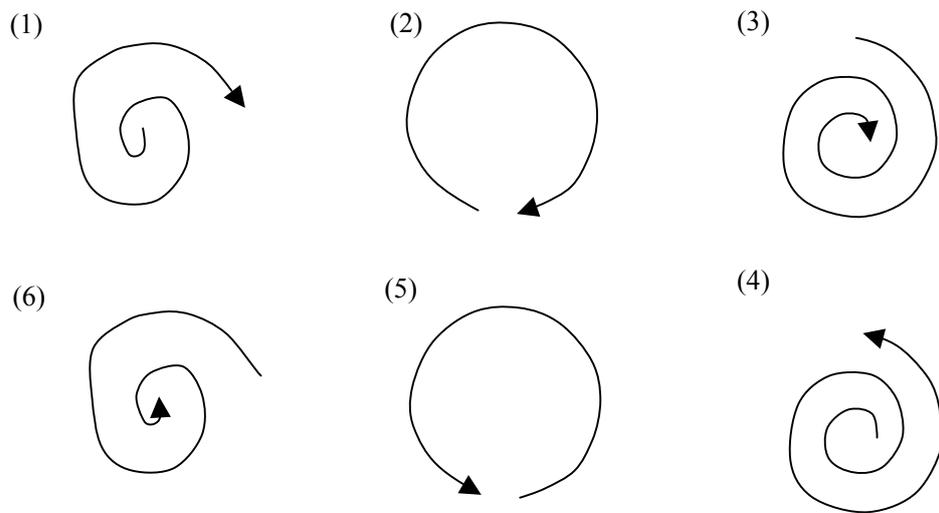
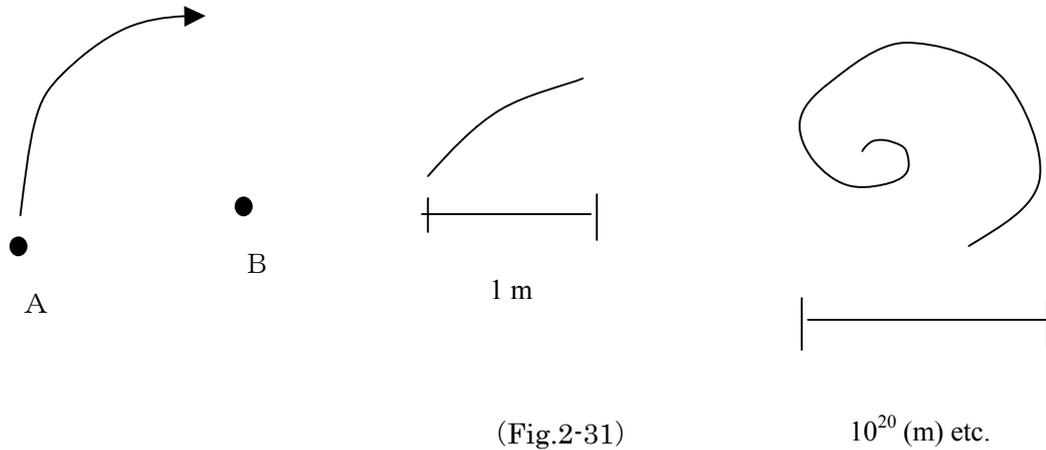
Orbit of light is composed of combination of (1) and (2).

In the case of (1), if there is another gravity center and it is out of orbit, the orbit bends. Then, the orbit also bends by the influence of former gravity center. (Fig.2-31)

If light emitted linearly from A bends by the influence of B, it also bends by the influence of A. (2)

As there are many gravity centers, no light goes straight.

No matter how small curvature is, orbit becomes rotation with time (If path is seen in a wide range.)



For these considerations, orbit of light is (1) – (6) in (Fig.2-32).

- (1) Orbit radius enlarges while rotating.
- (2) Orbit radius stays constant.
- (3) Orbit radius reduces. (It becomes infinitesimal)
- (4) Orbit goes out of infinitesimal area and its radius enlarges.
- (5) Orbit radius stays constant.
- (6) Orbit radius reduces. (It becomes infinitesimal)

If (1) – (6) are connected, the orbit becomes right structure.  
(It is essential meaning of infinity).

This light is converted to straight in recognition process.

Direction of recognition is reversed at central intersection.

(Outer consciousness and inner consciousness are changed for each other.).



## **Five Dimension is inner world**

Five Dimension is defined as the world in which time and space are changed for each other.

This world in which time and space are changed for each other is inner world.

Subject of recognition is time and space is object of recognition in ordinary world (Outer world).

Space is subject of recognition and time is object of recognition in inner world. Inner world is the world in which time can be seen.

That time is object of recognition means time is recognized as body and space. Body in inner world is time in ordinary world (Outer world).

As time is perpendicular to space, it can't be ordinarily seen. Your body also exists in this blind area. An aura means light poured from this body.

The world whose subject is time and the world whose subject is space, these 2 worlds exist. Latter is inner world and Five Dimension.

Magnitude relation is reversed in both worlds. Whole recognition of space (Universe) is constructed by continuity of result of recognition process in which large and small are reversed.

The reason why it is not easy for spiritual existence (Inner world) to be research object of science is that the existence can't be defined theoretically. Inner world can be defined as reverse direction world of ordinarily recognized world by introduction of Five Dimension into physics.

This discovery proves that human beings are far more valuable than have ever been considered.

Extinguishment of body is defined as death, but this definition is fault. All people who extinguish their body (Really existed people) keep their activity in inner world.

Naturally we will be able to communicate with people in this world by discovery of inner world. It means that concept of death disappears. Extinguishment of body is merely change of subject of recognition. Central activity place is only changed from outer consciousness to inner consciousness.

Arrival of the world without death. "Revival" is realized here.

## Black hole and white hole

Five dimension means the world in which time and space are changed for each other. Where do these changes happen?

Time and space are changed for each other at black hole and white whole.

Both black hole and white hole are consciousnesses of human beings. Everything is result of recognition process.

The world is result of recognition process.

Recognition is composed of 2 consciousnesses.

These 2 consciousnesses are time and space. Space doesn't bend because space is result of conversion of light to straight line, but time bends. A point where bentness (curvature) is infinite is black hole. Subject and object of recognition are changed for each other at black hole. Roles of time and space are changed.

Direction of subject of recognition is changed (Rotation of 180 degrees) at black hole.

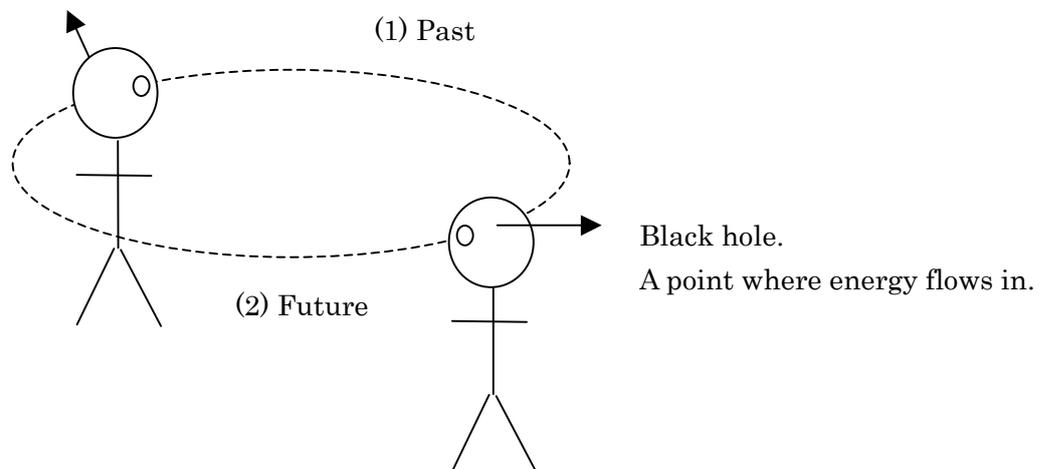
Black hole is a point where gravitation is infinite. Gravitation is generated by movement on bent time axis at light speed.

As direction of time is changed at black hole, gravitation is infinite.

Surroundings are future in black hole because direction of time is reversed. It means that subject of ordinary recognition becomes object of recognition. Subject to see becomes object to be seen. (Please refer to "The Past and the Future").

White hole.

A point where energy flows out.



(Fig.2-33)

The concept in contrast with black hole is white whole. It is regarded as a point where various existences are flowed out.

Time and space are changed for each other also at white hole. As a result, roles of time and space as subject of recognition and object of recognition are returned back to the original. (It becomes outer world (Ordinary recognition)).

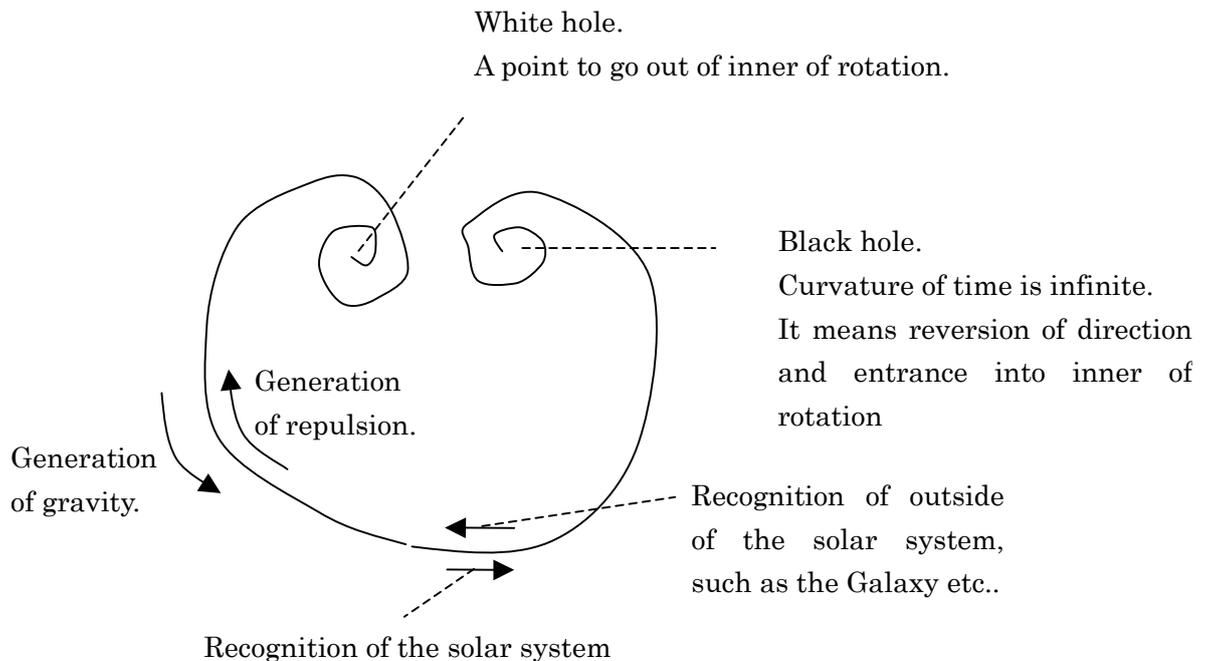
When recognition is processed, light goes and returns between 2 consciousnesses. It means that direction of time of both consciousnesses' result of recognition process is reversed.

Light flows in black hole and flows out from white hole. By repetition of this circulation, the world is composed. Matters are generated by the infinite rotation.

Recognition process is realized by conversion of light (curved) to straight line. In this case, recognition image is generated by conversion of light that is superposition of light that flows in black hole and light that flows out white hole to straight line.

2 men in (Fig.2-34) are consciousnesses of the same person. Recognition image (World) is generated by superposition of these consciousnesses.

Black hole and white hole can be thought to be change point of inner and outer. It can also be thought to be 180 degree's rotation. If ordinary recognition is thought to be outer recognition of spiral, recognition is changed to inner of spiral at black hole. After recognition of inner of spiral, outer of spiral is recognized from white hole. Situation before entrance into black hole is returned.



(Fig.2-34)

(Fig.2-35) Gravity is apparent power by movement outside the curve at light speed.

If consciousness moves inside spiral after passing through black hole, curve is reversed in comparison with the case to move outside. It means influence of repulsion that is reverse power of gravity.

The universe (recognition image) is result of conversion of light to straight line. The reason to be able to convert to straight line is that repulsion exists and by the influence of it the power reverse to gravity can be supplied to light.

The universe is generated by consciousness (Light) passing through black hole and white hole infinitely. Therefore, recognition of inside of black hole and not flowing out of white hole is included in the universe.

This space is influenced by repulsion.

The universe keeps expanding. That the universe started with big bang is thought to be the reason of it.

But, from above considerations, it is concluded that the reason for the universe to keep expanding is the influence of repulsion.

There are various reverses between ordinary world (Fig.2-33 (1)) and world inside black hole (Fig.2-33 (2)). Contents are arranged as follows.

1. Time and space are changed for each other. Five Dimension is composed of changing time and space for each other. Time and space are changed for each other in result of recognition of 2 consciousnesses.

From above explanations, it can be understood that distant space is composed of time that generates recognition of near space.

2. Time is reversed. As a result, surroundings become future. It means that time is changed from subject of recognition to object of recognition.

3. Magnitude relation of recognition is reversed. As direction of recognition is reversed, big near existences are recognized as small distant existences.

Ordinarily, space of (2) exists in a point (Point of (1)) that is recognized by us. Reversely, space of (1) exists in a point of (2).

By continuous recognition of (1) and (2), fractal (where space exists in a point) can be realized.

4. Inner world and outer world.

(1) means ordinary world. It corresponds to outer world. On the other hand, (2) is the world where reverses like 1 - 3 exist. This world means inner world.

As described in 3, Inner world exists in points of near world.

## Career and Achievements of Akira Takizawa. (Writer)

Date (YYYY/MM/DD)	Career and Achievements
1985	He has started religious activity.
1989	He has graduated from the University of Tokyo, and started career in Mitsui Bank. (Now it is called Sumitomo Mitsui Banking Corporation.)
1994	He suggested to the bank. "Revolution in information will happen from now on. PC will be bank. System should be strategic division." After the suggestion, The Sakura Bank (Now it is called Sumitomo Mitsui Banking Corporation.) was far ahead of banking circles through IT strategy to establish Japan's first internet bank (Japan Net Bank) and so on. It led to IT introduction in every industrial circle and IT strategy in Japan. Suggestion described above made great contributions to IT strategy in Japan.
1995/06	He was assigned to General Planning and Policy Division. He was in charge of ALM.
1999/07	He surpassed both Buddha and Jesus in spiritual rank.
2000/06	He left the Bank to make a study on five dimension and so on.
2000/12/31	He accepted pyramid figure (Creation principle of all things, equipment for generation of magnetic field energy (Human activity energy)) from above. It was the advent.
2001/09	[The Day to Surpass Buddha] was published.
2003/02	[Five Dimension Theory] was published. It was theoretically explained in the book that world was fractal structure. (Space was involved in dot). Necessity to revise physics wholly by introduction of five dimension was advised in the book.
2003/06	[Introduction of Minus Interest rate] was released. Economic theory was restructured to revive economy in Japan. It was theoretically explained that interest rate and rate of nominal economic growth should agree. It was proved at the same time that the cause of depressed economy in Japan after the 1990s was much higher interest rate than rate of nominal economic growth. It was claimed that both business and financial recovery should be made by higher rate of nominal economic growth than level of interest rate. After delivery of this discourse to government and the Bank of Japan etc., it was spread in Japan that it was necessary for interest rate to be lowered, and it made great contributions to business recovery. It has been theoretical ground of low interest rate policy around the world after the Lehman crisis.
2004/01	Property to store electromagnetic wave was confirmed in fractal structure. (On the front page of The Asahi Shimbun.). A part of contents of [Five Dimension Theory] was confirmed academically.
2005	He began to write sequel of [Five Dimension Theory]. Fundamental structure was delivered to the Physical society of Japan etc..
2005	He has entered into heavenly world. (It is world of tutelary gods.).
2006/11	[Five Dimension Theory Vol. 2] was released. It was delivered to the Physical society of Japan etc..
2007	[Introduction of Option Concept to Money], [Restructuring of Foreign Exchange Theory] were released. It was delivered to various quarters.
2008/06	Kagayaki-No-Kai has been established to relieve humankind. [Fundamental Principle to Relieve Humankind] was released.
2008/10	[Wholly Revised Financial and Economic System] was released.
2009/08	[Fractal Economic Theory (this book)] was released. It succeeded in theoretical analysis of the cause of bubble economy.
2009/10	[Five Dimension Theory Vol. 3 principle of recognition] was released. Outline of five

dimension was explained.

2011/10 [Five Dimension Theory Vol. 4 principle of space creation] was released.

2011/11 He has entered into creator world.

2011/12 Life-prolonging / Longevity Service has been started. Lifespan extension of humankind has been started.

2011/12 Equipment for generation of magnetic field energy (aura) was released.  
He succeeded in generation of magnetic field energy (aura) mechanically.

2012/7 He presented recommendation titled “Nuclear power must be abolished” to Prime Minister Noda. As a result, new energy policy named “Innovative energy / environmental strategy” aimed for “All nuclear power will be nonoperating in the 2030s” was announced from government on September 14, 2012.

Present President of Kagayaki-No-Kai.

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