

Fictitiousness of the expanding universe theory and the search for alternatives⁽¹⁶⁾

– Dark matter and dark energy do not exist. –

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Abstract

1. The galaxy's redshift interpreted from the perspective of the Doppler Effect is used as a powerful proof for the expanding universe theory. However, redshifts can occur when light waves in the galaxy pass through the dust layer in space(gas layer), electromagnetic field, and gravitational field. Therefore, the understanding on the connection between the expanding universe theory and redshifts must be reexamined.

2. Space has infinitesimal resistance capabilities against the effect of light wave energy. Therefore, some parts of the light wave energy could be lost during the process of propagating light waves in the galaxy to the earth in billions of light years. Also, the loss in light wave energy is expressed as a redshift and an increase in the wavelength(decrease in the intensity). The redshift under these condition is unrelated to the Doppler Effect and does not support the expanding universe theory.

3. The galaxy's redshift reflects the propagation distance of light waves(distance between the earth and the galaxy). Here, the galaxy in space does not have a rate of expansion. As a result, the spatial model at a stationary state can be selected as an advantageous position. Also, the actual

observations of professor William G. Tifft back up the spatial model in the stationary state. In this stationary spatial model, the role of dark energy and dark matter is unnecessary.

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I. Introduction

If the redshift of the starlight found by E. Hubble is analyzed from the perspective of the Doppler Effect, it can be concluded that the distance between the earth and the outer galaxy becomes distant by the progress of the present. Therefore, Big Bang's expanding universe theory is selected from astrophysics and is known as the theory which is proven and backed up by the redshift of starlight.

The only evidence for the expanding universe theory is the redshift of starlight, and no other evidences have been provided. In other words, the expanding universe theory in astrophysics backed by the redshift of starlight and doppler effect is all committed to fate. This risky decision is very unstable. Consequently, it is necessary to reconsider the selection of

the expanding universe theory.

If the redshift of the starlight occurs due to the Doppler Effect, the selection of the expanding universe theory is appropriate. However, the redshift of the starlight can be caused by various factors under different conditions. For example, when light waves pass through a strong electromagnetic field or thick glass(dielectric), some parts of the light wave energy are lost. Also, the intensity of the light wave energy is weakened during the loss process of the light wave energy, and the wavelength of light waves is increased(or the oscillation frequency is reduced). These two results are expressed as the redshift of light waves.

When light waves in the galaxy pass through the dust layer(or gas layer) of space or the atmospheric layer of the gravitational field, the redshift (increases in the wavelength) of light waves can take place. The Doppler Effect is not involved in the expression of the redshift. Also, if the role of the Doppler Effect is excluded, the expanding universe theory of the Big Bang should be modified.

In my theory of absoluteness, the decisive factor in redshifts is assumed to be the weakened light wave energy. For instance, space has resistance capabilities against the light wave energy, and the intensity of the light wave energy which passes through space can be weakened. Also, the decrease in light wave energy is expressed as a redshift. The size of this redshift is proportional to the propagation distance of the light wave. That is, the farther the distance between the earth and the galaxy is, the more

the redshift is.

In my theory of absoluteness, all galaxies and stars in space do not have an expansion rate. Also, it does not recognize the existence of dark matter and dark energy. Under these conditions, the expanding universe theory of the Big Bang is discarded and the stationary spatial model can be selected as an advantageous position.^[6] <<http://batangs9.com/E-6.pdf>>

If the spatial model in the stationary state is selected, it might be true that all galaxies and stars in space were created in the current location. In addition, the current location of all galaxies and stars will be permanently maintained. The stationary spatial model can be logically proven by the actual observations made by William G. Tifft.

In the body of the thesis, the characteristics of outer space will be introduced, and the reason why the redshift of stars occurs due to the characteristics of space will be explained. Also, the reason why dark energy and dark matter do not exist in space will be discussed. Lastly, the process which implements the stationary spatial model will be introduced as an alternative for the expanding universe theory.

II. Body

1. Structure and Characteristics of Outer Space

As described in the previous paper “**Elements in outer space and the conditions for the existence of light waves**”, space formally(control) conserves the propagation distance and propagation speed of light waves.

Therefore, space should have one absolute coordinate system. Also, in space where there is only one absolute coordinate system, the medium of light waves can be implemented(accepted) as an advantageous position. The medium of light waves is called “ether” in classical physics, but it is called “batangs” in this paper for convenience.^[6] <<http://batangs9.com/E-6.pdf>>

All physical phenomena exist by using the physical properties of batangs. In addition, these react to external stimuli with the elasticity of light velocity. Therefore, all actions of physical phenomena have a sequential propagation process(progress of change), and the propagation process of the light velocity is expressed as time t . Time t should be included in the properties of batangs, and it cannot independently compose the time axis (T).^[4] <<http://batangs9.com/E-4.pdf>>

Space has a complex combination of the property of batangs(elasticity of light velocity, time of t) and a three-dimensional spatial coordinate system(X, Y, Z). Space under this condition is called as a “three-dimensional complex spatial model” for convenience. Also, the time axis of T is not allowed in the “three-dimensional complex spatial model”, and all high dimensions greater or equal to the fourth dimension(9th or 11th dimensions) are not recognized.

One effect(experimental result) like the redshift of light waves can be modified into various meanings depending on the logical preconditions given by a person who does the analysis. For example, if the Doppler Effect is excluded in the analysis of the redshift, the expanding universe theory of the Big Bang should be modified.

The expanding universe theory in astrophysics has a logical contradiction. In other words, if the volume of space expands at the rate of the progress of the present, the material density of space and the gravitational constant would be gradually reduced. Also, when the gravitational constant is gradually reduced, it is impossible for space to maintain the stable order of operation (orbital revolution of a planet) for billions of years like the current situation.

Batangs in space are assumed (predicted) to have infinitesimal resistance capabilities against light wave energy. Therefore, some parts of light wave energy could be lost during the process in which the light waves in the galaxy is propagated to the earth in billions of light years. However, because the loss of the light wave energy is very minimal, light waves are propagated in space in billions of light years over billions of years.

During the propagation process of light waves, if some parts of the light wave energy are lost, the light pressure (height of the wave in the feature of transverse wave) of light waves become low, and the intensity of light waves is weakened. The loss and decrease of light wave energy mean an increase in the wavelength (reduction of the oscillation frequency). Also, the increase in wavelength is expressed as the redshift of light waves. Therefore, an earth observer can have redshift as the starting point. That is, the redshift centered on the observer is expressed.^[14] <<http://batangs9.com/E-14.pdf>>

The effect (increase in the wavelength) in which some parts of light wave energy get lost occurs inside a strong magnetic field. Also, when light

waves pass through a thick glass(dielectric), some parts of the light wave energy are lost because a strong magnetic field and electric field interrupt the progress of the light wave energy.

When light waves pass through the fine dust layer in space and the atmosphere in the gravitational field, a redshift occurs. For example, sunlight which passes through the earth's atmosphere at noon has a narrow redshift. However, the sunlight of the sunset has a wide redshift. Here, the size of redshifts is determined by the spatial density of the atmosphere and the passage distance.

2. Misinterpretation of redshifts and selection

of the stationary spatial model

In the “**three-dimensional complex spatial model**” which I insist, the stationary spatial model has a more advantageous position than the expanding universe theory of the Big Bang. In the spatial model with a stationary structure, the distance between the earth and the galaxy determines the size of redshifts. For instance, the farther the propagation distance of the light wave is, the greater the loss of the light wave energy and the larger the redshift.^[15] <<http://batangs9.com/E-15.pdf>>

In a “**three-dimensional complex spatial model**”, the propagation distance of light waves is the cause of the redshift. That is, the Doppler Effect is not involved in the occurrence of redshifts. Of course, it is possible for redshifts of the Doppler Effect to take place due to the motion of a light source like the revolution of Heavenly Twins, but the redshift of Heavenly

Twins is an exceptional case.

It is observed that a star(A) inside the galaxy and another star(B) outside($edge$) the galaxy have the same orbital velocity. Here, the distance between two stars(A, B) and the earth($observer$) is similar. The light wave energy of two stars weakens at the same rate, and has the same size of redshift. Therefore, it can be misinterpreted from the perspective of the Doppler Effect that the orbital velocities of two stars(A, B) are the same.

In the process wherein light waves are propagated by using batangs in space as the medium, some parts of the light wave energy are lost. Also, the lost light wave is distributed over a large area in outer space, and the existence of the lost light wave can be misunderstood as the background radiation of the Big Bang theory.

The distribution area($volume$) of batangs in space does not expand to new areas. Also, new batangs in space are not creatively generated. Therefore, the spatial density of batangs is always uniform, and constantly maintains($invariant$) its original position.

The stationary spatial model which I insist can be easily understood through the quantum cosmology made by professor William G. Tifft. That is, in the actual observations made by professor Tifft, it is found that all galaxies and stars in space expand at a radiation pattern centered on the observer. For example, all galaxies and stars in space have the same expansion rate in concentric circles at the center of the earth.

If we put the observations of professor Tifft as the premise, the earth observer exists at the center of the expanding universe like the geocentric theory. This quantum cosmology made by professor Tifft can be included in the stationary spatial model. This is because in the spatial model of quantum cosmology and the stationary structure, the propagation distance of light waves is reflected in the redshift as it is characterized by redshifts centered on the observer.

In the stationary spatial model, all galaxies and stars in space do not have an expansion rate. Therefore, all knowledge in astrophysics on the premise of the Big Bang's expanding universe theory should be modified to a different meaning. For instance, the rate of expansion of the galaxy means the propagation distance of light waves (distance between the earth and the galaxy). Also, the material density, size of space, age of space, etc. which are derived from the perspective of the expanding universe theory have different values.^[2] <<http://batangs9.com/E-2.pdf>>

III. Conclusion

All areas in space are filled with batangs. In addition, the energy of all physical phenomena is propagated (exist) by using batangs in space as the medium. Therefore, in the process of interpreting the working principle of all energy, the physical properties of batangs should be actively used. That is, the profound secret of all physical phenomena can only be identified through the properties of batangs.

Space has a complex combination of physical properties of

batangs(elasticity of the light velocity, time of t) and a three-dimensional coordinate system(X, Y, Z). In a “three-dimensional complex spatial model”, the four-dimensional space time model is not recognized. Also, all galaxies and stars in space do not have a rate of expansion, and do not require the existence of dark energy and dark matter.

Batangs in space have resistance function against the effect of light wave energy, and the resistance function of batangs provides the cause of redshifts. Therefore, the role of the Doppler Effect is unnecessary in the occurrence of redshifts. Under these circumstances, the spatial model in the stationary state should be selected. In other words, all galaxies and stars in space are created at the current locations, and will permanently maintain their current position in the future.

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*** Difference becomes specialty, Ideal becomes reality,
at the center of world in the name of center**

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