

Theory of Several and Dynamic Dimensions

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Abstract De Broglie postulated that electrons and other particles have wave properties [1]. If nature is symmetric, this duality should also hold for matter. Electrons, which we usually think of as particles, may in some situations behave like waves [1]. In addition, dimensions have spaces between them and these spaces are not known how to be fulfilled. Here I show theoretically that wave-particle duality and energy is reflection of the three known dimensions that exist in nature. Also, it is suggested that our universe has more than three dimensions as superstring theory predicts, to reach seven dimensions because the spectrum colors have seven colors that reflect these dimensions. In addition, it is believed that the dimensions move dynamically to fulfill the spaces between the dimensions which are not suggested before as a theory. Moreover, it is suggested that time has three dimensions and not only one dimension because there is three types of motion of the earth that produce time on the earth and they are rotation of the planet on its axis which produces days, the planet orbiting the sun which produces years, and the planet and the sun orbiting the supermassive black hole at the center of the galaxy.

Keywords: dimensions of space, dimensions of time, spacetime dimensions, dynamic dimensions, atomic model, wave-particle duality, the uncertainty principle

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1. Introduction

1.1. Dimensions of Space

De Broglie postulated that electrons and other particles have wave properties [1]. In addition, there are three important forms of matter and they are wave, particle and energy. The form of matter changes in according to the dimensions.

The first dimension	The form of wave
The second dimension	The form of particle
The third dimension	The form of energy

It is also suggested that maybe the form of wave is the status of energy because the wave's definition in classical mechanics is not well defined.

The first dimension	Particle
The second dimension (wave)	Energy

In addition, the atom emissions the photon in the form of light, so photon is a particle which is lighted and burned when leaves the atom with the light speed and reaches a medium or when transferring between dimensions [2].

Because of particles is so tiny and very small they express in the other dimension as a wave, and because of wave-particle duality it is believed that sound waves and all the waves consisting of particles like the photon and the electron.

1.2. Theoretical Atomic Model

In the suggested atomic model that if you compare the atom with the solar system model, the electrons move about the nucleus like the planets around the sun. In addition, it is believed that the photon orbits the electron like the moons orbits the planets [2].

Photons have no electrical charge [3], so it has negative and positive charge. It is suggested that when the negative part of the photon meets with the electron, the electron cannot fall into the nucleus. It is also suggested because of the controlling motion of the photon the electron cannot leave the atom in addition to the positive charge of the nucleus.

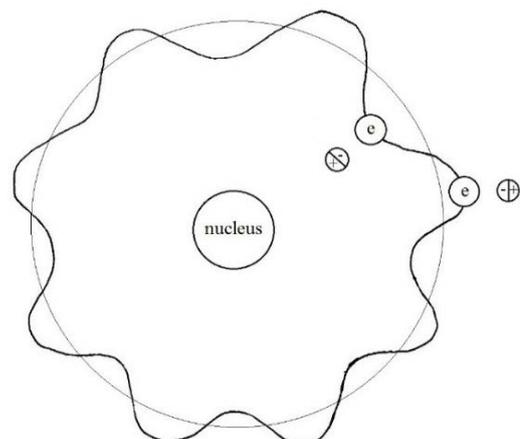


Figure 1. How the electron cannot fall into the nucleus in the suggested atomic model

It is suggested that the three dimensions of space are reflection of repeating of the universe three times. That is why the universe gained its three dimensions [2].

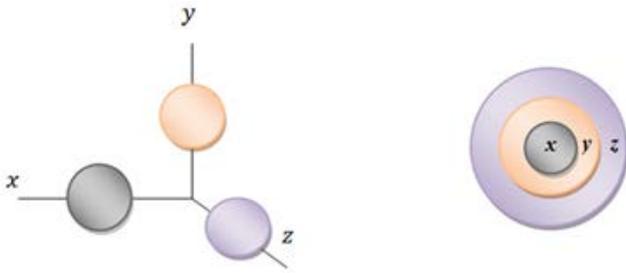


Figure 2. The three dimensions of space are reflection of three worlds (3)

It is suggested that the three dimensions have a dynamic motion to fulfill the spaces between the dimensions. The dynamic dimensions is the fourth dimension of spacetime according to Einstein’s special theory of relativity which indicates to the movement of space or speed or time and that because of time is the momentum of space.

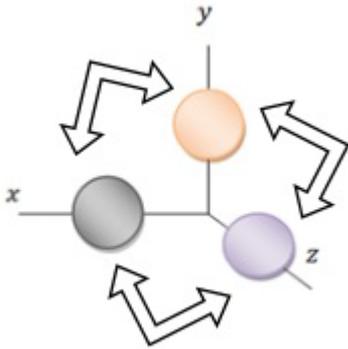


Figure 3. Theory of dynamic dimensions

1.3. Dimensions of Time

Time is the momentum of space (inversely proportional). Momentum is more precise than speed because the earth is rotating on its axis and that also generate time (days). The mass of any object is added because it represents the existence of an object in three dimensions and it is affected by gravity of the sun [4]. Notice that m_1 is the mass of the sun, x is the distance between the sun and the earth, m_2 is the mass of the earth and v_2 is the velocity of rotation of the earth around the sun.

$$t = \frac{m_1 x}{m_2 v_2}$$

When the big bang singularity was first created, it is suggested to be created in the form of atoms. According to my suggested atomic model, since the universe is a reflection of atoms and time is related to momentum, it is suggested that what initiated the big bang is due to the electrons were first to have momentum about the nucleus, It initiated the spark of the big bang and the beginning of time in the universe, and atoms reflected to shape the great model of the universe like galaxies and solar systems [2].

The arrow of time cannot back in time because the motion of a planet cannot go back in time to the opposite

direction [4]. Time started with a motion and cannot end with a stationary because the motion in the vacuum cannot end and there is nothing completely a hundred percent static, however the motion in the vacuum can end with the big crunch and that means that time can go back to the beginning of time and live the past again. This means that we are not going to be vanished after the big crunch because the quantity of matter cannot be removed, but it means that we are going to have the afterlife.

Because of time is related to velocity (inversely proportional relation) [2], so there are three types of motion of a planet that produce time and they are rotation of the planet on its axis which produces days, the planet orbiting the sun which produces years, and the planet and the sun orbiting the supermassive black hole at the center of the galaxy. These are the three known dimensions of time. It is believed that time travel can occur in the other dimensions and not in our dimension.

The First dimension of time	The rotation of the planet on its axis which produces days
The Second dimension of time	The planet orbiting the sun which produces years
The third dimension of time	the planet and the sun orbiting the supermassive black hole at the center of the galaxy

1.4. Gravity

Assume there is liquid in a container, and the center of the liquid is representing the sun. When you shake the liquid in the container it produces a hole in the liquid and that represents space-time curvature and also when you shake well and fast the peripheral liquid cannot fall into the center of the container so the equation need velocity addition. In addition, when you shake fast the liquid goes to the peripheral side of the container, so time will increase and the calculations of days and years will be more and it is also suggested that the speed of the peripheral liquid will be less, so there is an inversely proportional relation between gravity and velocity [5].

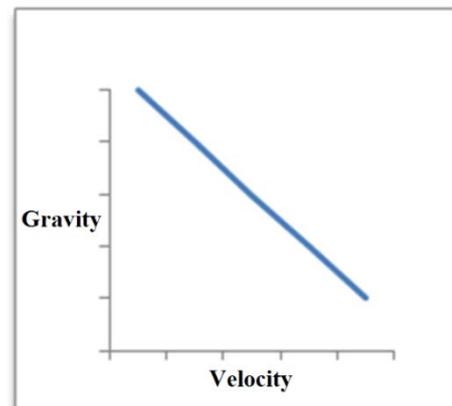


Figure 4. The relation between gravity of the sun and the velocity of rotation of the sun on its axis

To unify gravity with time is that the more the gravity of the sun the more the distance between the sun and the earth so the calculations of days of the year will be more, so time will increase. It is believed that gravity is proportional to time and gravity is inversely proportional

to the velocity of the rotation of the sun on its axis [6]. It is believed that maybe the centrifugal force theory for the atom is true, but it is not because of high speed of the electron about the nucleus, but because of the gravity of the nucleus. Notice that v_j is the velocity of the rotation of the sun on its axis.

$$F = \frac{m_1 m_2}{R v_1 t}$$

2. Results and Discussion

Firstly, the human body has five Limbs and they are the head, the two arms and the two legs which reflects the five dimensions that human can feel and they exist in nature.

Secondly, Human has five senses and they are sight, touch, hearing, smell and taste that reflects the five dimensions human can feel and they exist in nature.

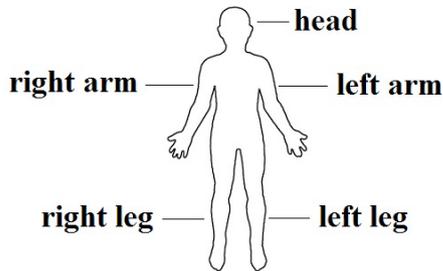


Figure 5. The five limbs of the human body are reflection of five dimensions the human can feel and realize.

It is believed that our universe has more than five dimensions to reach seven dimensions because the spectrum colors have seven colors that it is believed that they represent the seven dimensions of space and the colors of these dimensions.

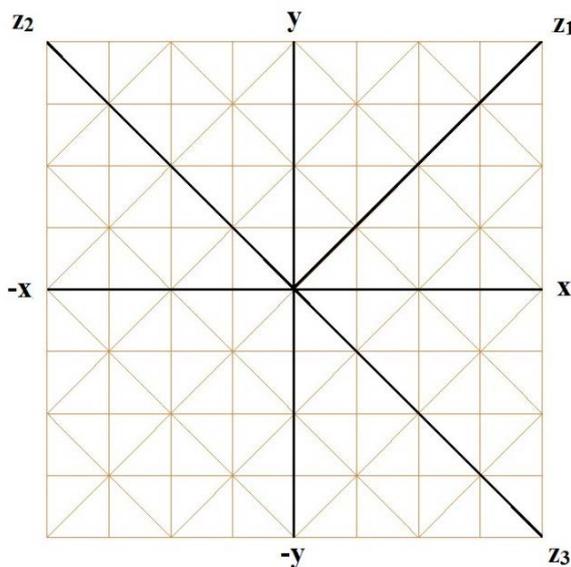


Figure 6. Graph shows the known seven dimensions that exist in the universe. Take consider that $-x$ with $-y$ is not a dimension because what is behind you is not a dimension because you cannot see it. Also, take consider that z_1 is the dimension that is in front of you to the right, z_2 is the dimension that is in front of you, z_3 is the dimension that is behind you to the right and $-y$ is the dimension that is beneath you

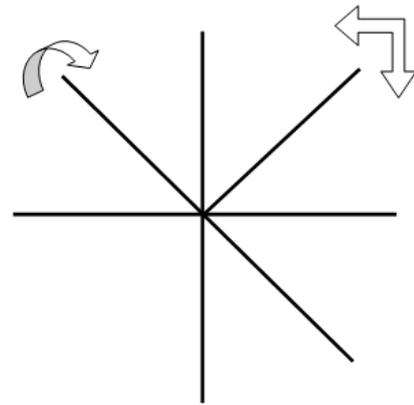


Figure 7. Theory of dynamic dimensions.

2.1. The Uncertainty Principle

The uncertainty principle implies that the more tightly constrained the value of one observable is, the more uncertain the value of the conjugate variable must be. It follows that the position of a particle that has well-defined momentum is maximally uncertain. In other words, in its ground state the particle is as stationary and as close to the origin as the uncertainty principle permits; there is a conflict between the advantage energetically of being near the origin, and the energetic penalty that the uncertainty principle exacts for having a well-defined position [6].

In addition, There is a chance that the changing of a position of a particle will be nearer or farther and there will be a new position after that and that is why it is not accurate if there is a relation between two particles. Also, it is suggested that you need to add the direction of one particle to another [5].

The human cannot exactly predict the future in an accurate way. If there is 50-50% chance that there are two positions of a particle and because of in quantum mechanics there is wave-particle duality, so there is a chance that the particle is in two positions and dimensions at one time. It is suggested that matter is existed as 50% chance in one dimension as particles and the other 50% chance exists in the other dimension as a wave.

2.2. The Infinite Shape

The sphere shape is so different from other shapes because it is suggested the starting point of the sphere is the ending point of it. In fact, it has no beginning and it has no end because it is a sphere which makes it an infinite shape [2]. This explains why the universe looks the same at each position in space.

In addition, if someone gets a plane, and starts a journey to explore the earth, the starting point of the journey is the ending point of the journey. So, if this person wanted to start another journey, he had to repeat the first one. This explains why the universe is repeated all around us, and events are repeated in the history of mankind. Therefore, the repeating makes the universe infinite [2].

The triangular shape has three dimension because it has three sides or edges. The square and the rectangular shapes have four dimensions because they have four sides or edges. The spherical shape or the circular shape has

infinite dimensions. All planets and stars have spherical shapes which proves that our universe is infinite and perfect. If you want to fold a sphere you cannot fold it well, so you have to stretch it to fulfill the spaces between them. Stretching means that sphere shape has deepen and infinite dimensions. It is believed that the shape of the earth is not perfectly sphere shape to put limits to these infinite dimensions.

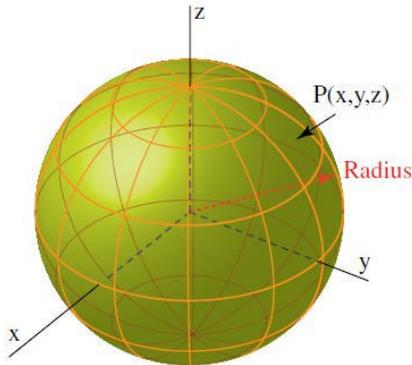


Figure 8. Sphere shape [7] is an infinite shape, has deepen and infinite dimensions.

2.3. God in Physics

In addition, if it is suggested that time is inversely proportional to momentum [2], so time is direct proportional to *static*, so time is the static state. It is believed that there is no one is *immortal* other than *the divine creator* which proves his existence, so time is *the divine creator* and *the divine creator* is time. It is concluded that there is a *divine creator* who is *immortal* and has power to all times. It is believed the existence, *immortality* and *divinity* of *the creator*. *The divine creator* has power on everything including time, gravity and the entire universe. There is only "one" in the universe and that "one" must be *the divine creator* [6]. To describe the theory in numbers,

$\sqrt{1} = 1$	There is no two of him. God cannot be divided into two gods.
$\sqrt[3]{1} = 1$	There is no two of him. God cannot be divided into three gods.
$\sqrt[4]{1} = 1$	There is no two of him. God cannot be divided into four gods and so on.
$1^1 = 1$	There is no more than one God. God cannot be multiplied
$1^2 = 1$	There is no more than one God. God cannot be multiplied or squared.
$1^3 = 1$	There is no more than one God. God cannot be multiplied or cubed.
$1^4 = 1$	There is no more than one God. God cannot be multiplied and so on.

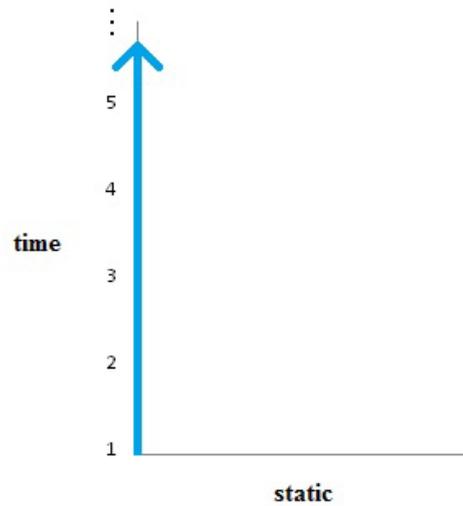


Figure 9. The relation between static and time (6)

3. Conclusion

In conclusion, it believed that the form of matter changes in according to the dimensions, our universe has more than three dimensions to reach seven dimensions and they work dynamically to fulfill the spaces between dimensions. It is concluded that time has three dimensions, so our universe has ten dimensions of spacetime. It is also concluded that the sphere shape of the planets and stars have deepen and infinite dimensions which prove that our universe is perfect and maybe it has more than seven dimensions.

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