

Exploration

Origin of Universe & Various Dimensions

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Abstract

This paper proposes a theory of evolution of universe. The universe is simple and expanding. New matter is being added to the universe at a sustained rate. Proposition also needed specifying two new dimensions of Consciousness (Intelligence or sentience) and Energy/Matter. The model of this universe aims to explain the expanding nature of universe, shape of objects, and circular motion in space. This model accounts for observations such as the correlation of distance and red shift of galaxies, dark matter, dark energy and the microwave radiation background of the universe. The conclusions of the paper are as follows:

- (a) The evolution of universe is not from Big Bang but continuous.
- (b) That the evolution of universe started from absolute zero.
- (c) That the principles of Maya (Illusion) can be seen in formation of the wave from naught and formation of elementary particles from waves because of constant of speed of light.
- (d) That there are total six dimensions, three of space and three of time, consciousness and the Vibration (energy/ matter).
- (e) The universe is not moving radically outwards from its center but moving tangentially outwards from its center in a spiral.
- (f) Consciousness has created nature and by experimentation about nature, nature can be understood, not consciousness.

Keywords: Origin, universe, dimension, consciousness, intelligence, sentience, energy, matter.

Introduction

The most popular theory of our universe's origin centers on a cosmic cataclysm unmatched in all of history—the big bang. This theory was born of the observation that other galaxies are moving away from our own at great speed, in all directions, as if they had all been propelled by an ancient explosive force. Big bang proponents suggest that some 10 billion to 20 billion years ago, a massive blast allowed all the universe's known matter and energy—even space and time themselves—to spring from some ancient and unknown type of energy. The theory maintains that, in the instant—a trillion-trillionth of a second—after the big bang, the universe expanded with incomprehensible speed from its pebble-size origin to astronomical scope. This expansion has apparently continued, but much more slowly, over the ensuing billions of years. Scientists are not sure exactly how the universe evolved after the big bang. Many believe that as the time passed and the matter cooled, more diverse kinds of atoms began to form, and they eventually condensed into the stars and galaxies of our present universe.

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Before the big bang, scientists believe the entire vastness of the observable universe, including all of its matter and radiation was compressed into a hot, dense mass just a few millimeters across. This nearly incomprehensible state is theorized to have existed for just a fraction of the first second of time. The glow of cosmic microwave background radiation, which is found throughout the universe, is thought to be a tangible remnant of leftover light from the big bang. The radiation is akin to that used to transmit TV signals via antennas. But it is the oldest radiation known and may hold many secrets about the universe's earliest moments. The big bang theory leaves several major questions unanswered. One is the original cause of the big bang itself. [1] Discoveries in the early 20th century have suggested that the Universe had a beginning and that space has been expanding since then,[2] and is currently still expanding at an increasing rate.[3]

The Big Bang theory is the prevailing cosmological description of the development of the Universe. Under this theory, space and time emerged together 13.799±0.021 billion years ago [4] with a fixed amount of energy and matter that has become less dense as the Universe has expanded. After an initial accelerated expansion at around 10–32 seconds, and the separation of the four known fundamental forces, the Universe gradually cooled and continued to expand, allowing the first subatomic particles and simple atoms to form. Dark matter gradually gathered forming a foam-like structure of filaments and voids under the influence of gravity. Giant clouds of hydrogen and helium were gradually drawn to the places where dark matter was most dense, forming the first galaxies, stars, and everything else seen today. However, it fails to explain from where the matter came from or originated, and what triggered the giant explosion etc.

New Model of Universe

This New model of universe is a theory of simple universe and it aims to confirm both to metaphysical and scientific world. It should be able to unlock various mysteries that confound us from time to time.

The main postulate of the theory is of 'Reason'. Everything has a reason for happening. There is a cause for every event and then its effect. Newton's First Law of motion states that an object will remain at rest or in uniform motion in a straight line unless acted upon by an external force. It is a statement about inertia, that objects will remain in their state of motion unless a force acts to change the motion. If we apply that to universe, we see that Force was there to create the universe and to regulate it. The universe did not begin as a big bang as popularly believed but **it began in a continuous orderly fashion.**

What prevailed before the beginning of universe and its center is the great Void or zero (Cipher or numeral 0) (also known as Mahashunya - The absolute Zero). At that point, **there was only one dimension Consciousness and no space and no matter.** The consciousness may be defined as a fact of awareness by itself (itself being the interpreter). Consciousness can also be defined as intelligence or sentience. We must not stop here for lack of appropriate word because this is a completely un-discussed dimension. One can also draw an analogy to a super-intelligent computer program that is self-aware and capable of controlling itself and the surrounding. That

universe was also created with a purpose. The purpose of creation not a subject here since we are first discussing the manner of its creation.

We all know that for something to be produced there must be some space and some energy and for that purpose only big bang theory assumed entire universe in a small space before the Big Bang. However, that matter was also required to be created first. Now let's go back to the beginning. In the beginning when there was no energy, no matter, no time. We can assume some external frame of reference about time but at that point it had no connotation because there were no events, no matter, no relativity.

Vedas say that the universe was created from nothing and if it is ended it will become nothing. That's why it is known an illusion or Maya. Maya is often misconstrued as illusion. Maya are the scientific principles which helped intelligent program to initiate the vibration and then created the matter out of those vibrations. The Maya can be seen as key principles used by the consciousness to create nature. As we would need to format a memory drive to store information, the space was also formatted for creation of universe with the beginning of two parameters r (radial distance) and Θ (Solid angle) (polar coordinates) since universe extended from a point in spherical space (naturally- its center) which later became our Universe. Therefore, as a first move the space was created. This **formatting is the dark matter**.

With the creation of space, a sustained thought (Sankalpa- a resultant of infinite executions of the program called consciousness) began the dimension of vibrations. From that point, in a 360 deg solid angle space there originated a number of antipodal Vibrations extended outwards. This entity we call as **the vibration** and it is difficult to be detected (Dark Energy?). Since the beginning took place from a sustained, purposeful thought of consciousness and it is continuous, extending to the infinity. **Even now it is happening; the way it started thus the universe is continuously forming and is of expending type.**

With the origination of the Vibration there came another dimension in existence- time. The time comes to existence if there is change (event) and with the formatting of space and creation of vibration the universe had rumbled itself in motion. There are 6 dimensions now in the order of their precedence Consciousness, 3 dimensions of Space, the Vibration (energy/ matter) and time.

Consciousness and the Vibration (Energy/ Matter) are separate dimensions. In classical mechanics, space and time are different categories and refer to absolute space and time. The conception of the world currently is a four-dimensional space. The dimension of a mathematical space (or object) is informally defined as the minimum number of coordinates needed to specify any point within it. The dimension may start from absolute zero, any relative position and may run to infinity. The dimension of consciousness can be understood by drawing analogy to intelligence or computer program being capable of number of computations per second the way these happen in computers. The dimension of the Vibration (Energy/ Matter) will be explained in following paragraphs. The Vibration signifies energy and it's what leads to creation of matter.

The Beginning of a Continuous Process: The First Illusion

The Vibration is energy. It has some characteristics as we understand them today. These are amplitude, frequency, speed and polarization. There may be some more that we may find out some of these later. If two Vibrations of same type exactly opposite in phase are combined together, the vibrations will absorb each other (cancel out each other). Can the same process be done in reverse? If we can solve this riddle, we can create sustained energy source and solve all the current energy crisis on the earth. The consciousness which has ultimate intelligence solved this and created N number of anti-phase antipodal waves out of nothing with a sustained purposeful thought. The dimension of consciousness gave way to the dimension of energy. These waves (energy) spread out in all directions (Omni- directional).

The second Illusion: Energy forms Matter

Thanks to Einstein today we know that $E = mc^2$. On the most basic level, the equation says that energy and mass (matter) are interchangeable; they are different forms of the same thing. Under the right conditions, energy can become mass, **and vice versa**. We humans don't see them that way—how can a beam of light and a walnut, say, be different forms of the same thing?—but Nature does. [5]

Let's assume that these vibrations were passed through a curved rotator of space-time and began to overlap each other to form beats. These beats further strengthened the waves and altered some of their characteristics. This process was continued till these wave achieved certain amplitude and attained a definite speed called C (Speed of light) and as the wave hit this speed due to the inherent characteristics of speed of light (universal constant as described in the Theory of relativity), the time for the wavelet gets dilated, and length contracts and mass is extended to infinity.

Since there was no mass yet and waves had hit the speed C, the mass began to arise. Such wavelets further passed thru curved space time and started spinning, bumping in to each other on the way to outer space. And these wavelets started combining in random fashions to form various different type of waves and smallest of particles in the beginning were temporary, these integrated and disintegrated spontaneously. Slowly these wavelets began to gather more wavelets and getting superimposed, entangled with each other forming smallest of sustainable particles. As these particles were fusion of many wavelets in n number of permutations and combinations, started to gain mass, they slowed down. In this fashion, initial vibrations formed the various types of particles having similar and dissimilar characteristics.

At present, matter and energy are best understood in terms of the kinematics and interactions of elementary particles. To date, physics has reduced the laws governing the behavior and interaction of all known forms of matter and energy to a small set of fundamental laws and theories. A major goal of physics is to find the "common ground" that would unite all of these theories into one integrated theory of everything, of which all the other known laws would be special cases, and from which the behavior of all matter and energy could be derived (at least in principle).[6]

The Standard Model of particles [6] describes three of the four fundamental forces in nature; only gravity remains unexplained. In the Standard Model, a force is described as an exchange of bosons between the objects affected, such as a photon for the electromagnetic force and a gluon for the strong interaction. Those particles are called force carriers or messenger particles.

Let's assume these combinations reached the level of sub atomic particles we know today (as of above table) and further evolved in neutron, proton and electrons. They went on to formation of elements, smaller and heavier. As this dust became so that no more fusion was now possible and collisions were the only way. Atoms, molecules, chemical and physical reactions took over.

Not all wavelets find a buddy and so they keep spreading in their infinitesimally small forms outwards. **These wavelets, waves, particles which are leftover of continuous creation continue to travel the space can be perceived as dark energy.**

The Four Fundamental Interactions Of Nature					
Property/Interaction	Gravitation	Weak	Electromagnetic	Strong	
		(Electroweak)		Fundamental	Residual
Acts on:	Mass – Energy	<u>Flavor</u>	Electric charge	<u>Color charge</u>	Atomic nuclei
Particles experiencing:	All	<u>Quarks, leptons</u>	Electrically charged	<u>Quarks, Gluons</u>	<u>Hadrons</u>
Particles mediating:	Not yet observed (<u>Graviton</u> hypothesized)	W^+ , W^- and Z^0	γ (photon)	Gluons	<u>π, ρ and mesons</u>
Strength at the scale of quarks:	10^{-41}	10^{-4}	1	60	Not applicable to quarks
Strength at the scale of protons/neutrons:	10^{-36}	10^{-7}	1	Not applicable to hadrons	20

The result of moving of these waves through space time curve was gaining of spin and rotational characteristics and charge of elementary particles and the sub particles. This characteristic further extended in helical galaxies, curved motion of stars and planets. Even in a universe which

is expanding, it may not be expanding radically outwards but matter may be moving tangentially and expanding (as in a helix).

Using the equation $E=MC^2$, we can find out how much energy is released in conversion of matter in energy and if we calculate backwards, we know that how much vibrational energy has created this tiny piece of matter.

Why do we need to understand that Vibration (Energy/ Matter) is a separate dimension is because at any point in space the dimension of Vibration (Energy/ Matter) can take a value of zero to infinity (such as in core of a Black Hole). The vibration can be zero only at the center of Universe from where it expanded.

Therefore the foremost conclusion is that the universe is still creating from the centre and the continuous vibration (which created the wave) is still on. Therefore, where can we find the newest of matter? It is in the area which is closer to the center.

The nature is different than consciousness. Consciousness has created nature through the basic vibrations. Lets us take analogy of a hardware computer engineer trying to read an encrypted software program physically residing in a solid state drive using material tools. To decrypt he will be required to use special methods and software tools. Due to this fact, there is integrity and intelligence in smallest of particle and biggest of star. We may not perceive that now, but we will perceive that in the times to come.

Conclusions

The methods used in this article are: (1) Inspiration from Vedas and research on internet. References are given; and Contemplation and meditation. The results of the paper are as follows:

- (g) The evolution of universe is not from Big Bang but continuous.
- (h) That the evolution of universe started from absolute zero.
- (i) That the principles of Maya (Illusion) can be seen in formation of the wave from naught and formation of elementary particles from waves because of constant of speed of light.
- (j) That there are six dimensions three of space, time, consciousness and the Vibration (Energy matter).
- (k) The universe is not moving radically outwards from its center but moving tangentially outwards from its center.
- (l) Consciousness and nature are separate and through interaction with nature you cannot check consciousness.

References

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