

Unified theory of cosmology

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Abstract: *The standard model of cosmology begins with a big high energy sphere or a fire ball. But the theory fails to explain about the origin of matter particles from the energy and the origin of the initial fire ball. This is the transient state of the Universe. The same standard model is also restricted only to the origin and evolution of the non living matter and fails to explain the end of the Universe. So, the standard big bang model cosmology is incomplete. So, in this short note, complete theory of cosmology is presented by integrating Biblical model cosmology with the big bang and steady state model cosmologies.*

Key Words: *Unification of Transient Universe, Steady state Cosmology and Biblical Cosmology.*

1. INTRODUCTION:

The standard model of the Universe [1],[2] based on the general theory of relativity[3],[4],[5],[6] leads to a singularity. Singularities usually originate in the mathematical physics due to unrealistic assumptions made. So, the assumption of origin of relative space in the beginning of the world is incorrect or unrealistic. In the following lines an alternative theory is proposed based on [7], [8].

In the standard model cosmology singularity originates at the point of origin of the world. As per the mass energy equivalence principle, world originated from the energy. So, the energy must have originated from the absolute space or vacuum or nothingness. The curved space of the general theory of relativity is associated with the energy or electromagnetic field. In this theory no singularity is generated. So, the curved space assumption made in the general theory of relativity is incorrect.

However, the standard model cosmology begins with a big fire ball of energy and ignores about the origin of the energy or fire ball, even though the space of the particle physics, electromagnetic theories and the theory of the early universe does not create any singularity.[9],[10],[11] So, the standard model cosmology is very much incomplete.

All systems have transient and steady states. So, the standard model cosmology too must have a transient and steady states. But the model avoids any such studies due to the limitations imposed by the statistical interpretation of the quantum mechanical theory. So, deterministic theory of quantum mechanics was developed [12],[13],[14]. The special and general theories of relativity were also modified [15],[16],[17],[18],[19] Finally, all the modified theories were applied to study the transient behavior of the Universe. Theories of transient and steady states of the Universe are integrated. In this way, the standard model cosmology was made as a complete theory.

However, the modified theory does not include a theory of origin and evolution of life. So, both the standard model cosmology and the modified standard model cosmology are incomplete. But the cosmology of the Bible (Genesis) [20], as interrelated by the science is very much complete which includes all about the origin and evolution of both living and non living forms of the world from the time zero. So, in this short note, complete scientific theory of cosmology is presented based on the cosmology of the Bible.

2. THE COMPLETE SCIENTIFIC THEORY OD COSMOLOGY:

All the theories of the Universe were developed based on the earth based observations and sciences. So, the laws of the local Universe are applied to develop the theories of cosmology with the belief that the laws of the physics are invariant over the entire Universe. Biblical theory of cosmology too was developed based on the earth based observations and knowledge.

Person or persons who developed the Biblical theory of Cosmology probe the origin and evolution of the world by the time scale or dimension developed by counting the days and nights both in the forward and backward directions.

A day originates with the light and ends with the darkness. World is visible only in the day light. If all the materials including the light are removed from the world, only darkness or nothingness will be there. So, the light or energy originated out of nothingness or absolute space or absolute vacuum. From the energy the entire material world originated. This simple Biblical theory of cosmology exactly matches with the modern scientific theories of cosmology.

So far, we find life forms only on the earth and not in other places. So, for building complete theory of cosmology, earth should be taken as the center. Moreover, for the formation of complex forms like life, nuclear fusion reactions at very high temperature must have taken place. Production of many atoms, molecules and integrating them

to make life forms demands energy at very high temperature and then cooling in a unique way. So, the earth may be considered as the center of the world like in the Cosmology of Bible.

The Universe is filled with hydrogen gas and all the stars originated from these hydrogen clouds. Hydrogen is the simplest atom made up of one proton and one electron. So, as per the nuclear and atomic theory, hydrogen should have originated first from the energy after the initial cooling of energy. But Oxygen has 8 protons, electrons and neutrons each. So, Oxygen atom is much more complex than the hydrogen atom. The formation of Oxygen atom from the hydrogen by transmutation nuclear reaction seems to be very difficult because as compared with hydrogen gas content of the Universe, the Oxygen gas content is very small. A water molecule is formed by combining two hydrogen atoms with one oxygen atom. So, if the hydrogen and oxygen are present in a gas cloud in 2:1 ratio, water may be formed in the cloud by combining the two gases. Two third of the earth surface is filled with water. Most of the water are stored in the deep Oceans of the earth. Such a large volume of water is found only on the earth in the very big Universe. Water is the basis for the formation and survival of life. So, in this way also earth is a very special place in the Universe.

For the origin and evolution of life, water is a pre requisite. If the earth is assumed to be the center of the world, energy at very high temperature must have originated from the location of the earth and the water molecules should have originated first at the earth's location. The hydrogen gas clouds of the other parts of the Universe should have originated after the formation of water at the center of the Universe because of the long distance of separation of the center from the other parts of the world. This scientific process is very beautifully described in the layman's language in the Genesis of the Bible. As per the genesis of the Bible, the earth was formless and was filled with water in the beginning. Then the Sky was formed by splitting the water of the earth.

After the formation of earth covered with water and hydrogen clouds around the earth all over the world, spiraling of hydrogen cloud should have taken place with Sun's location as the center. This spiraling process should have led to the origin of the light and must have reached the earth covered by water and darkness. The spiraling process should have made the earth to revolve around the Sun and to rotate by itself. This self rotation created day and night. This scientific process is also beautifully described in the Bible.(in the simplified layman's language).

The self rotation of the earth about its own axis should have pushed the water on one side and the land on the other side should have appeared on the other side. The water should have flown from the upper land to the lower land due to self rotation. So, with the water on the earth, light from the Sun and day and night, plants should have originated on the earth after the formation of the land from the earth covered by the water. This scientific process is also very beautifully described in Bible in the same layman's language.

Then the spiraling of hydrogen gas around the location of the Sun should have made other planets of the solar system, Sun and the moon. Sun is also a star. So, when the Sun was formed, stars all over the world should have originated from the hydrogen clouds. This scientific process of formation of Sun, moon and the stars is also beautifully described in the Bible in the simplified language.

After the formation of plants, animals must have originated and then finally human beings must have originated. As per the scientific theory, all in the world should have originated from the simpler forms to the more complex forms. The same scientific principle is followed in formulating the Biblical theory of Cosmology.

3. ORIGIN OF ENERGY FROM THE ABSOLUTE SPACE:

How did the energy originated from the absolute space or nothingness? The theory in the following lines explains how energy originated from nothingness. As per the Coulomb's law of electric field, an electric charge may be defined as a highly concentrated electric field. Electric field has energy & so, a charge may be defined as highly concentrated field or energy. A charge is an eternally radiating source. This is possible if and only if the radiated energy goes back to the source and vice versa. The north pole and the south pole of a magnet are inseparable. In each and every magnet there is an eternal circulation of energy between the north and the south poles. As a consequence there is an eternal radiation between the north and south poles. Similarly, there must be an equal and opposite charge for each charge accessible to the human senses. These opposite charges must be present in the absolute space and so, they are not accessible to the human senses. The energy originated from the absolute space in the beginning of the world. So, in the beginning, the sensible and non sensible charges must have been concentrated at a point and a highly powerful spark (energy) must have originated and explosion and expansion of the energy should have begun. So, the charges of the absolute space which are not accessible to the human senses and the charges of the material world generated the material energy when they were concentrated at a single point in the beginning.

When the energy exploded and travelled fast, its speed must have been reduced because of the gravitational pull of the high energy density at the center. So, there must have been a compression when the energy reached the end of the world. So, there was a fast expansion and compression in the beginning during the transient phase of the world and that finally led to the formation of matter particles. The Universe cooled down and reached the steady state when the matter dominated Universe was born. So, both the steady state and the transient worlds are cyclical. To satisfy the first law of

the thermodynamics, matter particles are created from the energy, preserved and destroyed or transformed back to the energy at the end. So, the Universe is cyclical in both transient and steady state phases.[7],[8].

4. CONCLUSION:

In this article scientific and Biblical theories of cosmologies are integrated. The transient or early Universe of the energy dominated Universe and steady state theories of the matter dominated world are integrated and how matter particles are produced from the energy is explained. How the energy originated from the absolute space too was explained. All integrations were done by considering the earth as the center of the world.

REFERENCES AND BIBLIOGRAPHY:

1. J.V.Narlikar (2002) *An introduction to Cosmology* Cambridge University press.
2. Andrew Liddle (1999) *An Introduction to Modern Cosmology* John Wiley & Sons.
3. Albert Einstein (1990) *Ideas and Opinions* Rupa & Co. New Delhi.
4. George Gamow and J. M. Cleveland (1989) *Physics* Prentice Hall of India Pvt. Ltd., New Delhi.
5. Robert Resnick, David Halliday and Krane (2000) *Physics – I.Vol.1*, John Wiley & Sons, Singapore.
6. Robert Resnick, David Halliday and Krane (2000) *Physics – II.Vol.2*, John Wiley & Sons, Singapore.
7. John Daniel (2019): A modified theory of the early universe, *Journal of emerging technologies and innovative research*, 6,685-689.
8. [8]. John Daniel (2019) Analysis of the material universe, *Journal of emerging technologies and innovative research*, 6, 706-710.
9. P.T.Mathews (1974) *Introduction to Quantum Mechanics*. Tata McGraw Hill Edition, New Delhi.
10. Robert Eisberg and Robert Resnick (2003) *Quantum Physics*. John Wiley & Sons, Singapore.
11. Richard Feynmann (1990), *Quantum Physics*, Rupa& Co., New Delhi.
12. John Daniel (2019) Deterministic Quantum Theory, *Journal of emerging technologies and innovative research*,6,883-887.
13. John Daniel (2019) Velocity and Energy of Particles, *Journal of emerging technologies and innovative research*, 6,844-848.
14. John Daniel (2019) Fundamentals of Deterministic Quantum Mechanics, *Journal of emerging technologies and innovative research*.6, 506-510.
15. John Daniel (2019) Particles and Fields, *Journal of emerging technologies and innovative research*, 6, 985-990.
16. John Daniel (2019) Theory of Fields and Energy, *Journal of emerging technologies and innovative research*, 6.
17. John Daniel (2019) General theory of gravitational and other fields and it's applications to astrophysics, *Journal of emerging technologies and innovative research*,6, 681-686.
18. John Daniel (2019) General Deterministic Theory of Fields, *Journal of emerging technologies and innovative research*, 6, 1-4.
19. John Daniel (2019) General theory of fields, *Journal of emerging technologies and innovative research*,6, 701-706.
20. *Good News Bible*, Genesis, pages 3-5, St. Paul's publication, Mumbai, India (2017).

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