

Melody of Reality Sung by an Physicist and a Philosopher

Dr.V.Ponnusamy, Hemalatha Manoharan

Abstract— Vethathiri Maharishi and Stephen William Hawking are two great legends of this century. They belong to different fields which are diagonally opposite to each and other. Vethathiri Maharishi was a philosopher and Stephen Hawking was a theoretical physicist in the field of cosmology. Major portion of their life time were dedicated to the deciphering of the origin of the universe. Interestingly both enquired into the secret of nature in their own way. Stephen Hawking worked hard to formulate a theory describing and defining every phenomenon that occurred in the universe. These two legends were against nuclear wars. Both of them had discussed on the topic of environmental issues, particularly on global warming and its danger. Stephen Hawking had suggested to colonise space and to settle down in other planets which are qualified to support living organisms like human race in them. Stephen Hawking had written nine books among which "The Brief History of Time" was best seller and another five books he had co-authored. So altogether he had written fifteen books. Vethathiri Maharishi had written many books and numerable poems in Tamil. In comparing these two great personalities a small effort has been taken to bridge the gap between science and philosophy.

Keywords— Black hole - Hawking radiation- thermodynamics- meditation- physical exercise- introspection- - nuclear war- Global warming, etc

I. INTRODUCTION

Science is the language of logic and intellectual reasoning. Philosophy is the language of intuitional thinking. In ancient days there was no definite demarcation for science and philosophy. Many Greek philosophers have dealt in depth with both the spiritual metaphysics aspects and the science of the material world. Vethathiri Maharishi seems to be of that category who discusses both Stephen Hawking dwells deep into the realm of universe for many unresolved problems of nature and tried to answer them, he was an Antagonist. In spite of his severe crippled condition he achieved to the heights of popularity and fame.

He will ever be the symbol of inspiration and motivation for all who strive hard to reach their respective goal and ambition. Vethathiri Maharishi had developed into the status of a spiritual Guru and mentor for innumerable individuals who are

aiming to progress in spiritual Sadana. And in spite of his poverty and family circumstances he attained peak of success in his life time. Both of them were true illustrations of mental strength and self confidence. In their field they had extended and developed the principles and ideas of their predecessors. Stephen Hawking worked on the Black hole mechanics by using the field equations of General Relativity which was discovered by Sir Albert Einstein and moreover Hawking also used the principles of Quantum Mechanics. Swamiji teachings had foundations from the concept of love and universal compassion of saint Ramalinga Adigalar, Thiruvalluvar, Thirumoolar and Siddhar Bhogar.

The main purpose is to establish the fact that the ultimate origin of the universe and its future can be explained both through philosophy and physics. And so eminent personalities in both these fields were preferred and their similarity towards understanding universe and social welfare were discussed.

II. STEPHEN HAWKING AND VETHATHIRI MAHARISHI

A. Stephen William Hawking

Stephen Hawking was born in the year 8th January 1942 in Oxford, England. He was diagnosed with Motor Neuron disease in his twenty first year and was confined to a wheel chair from that time. After this incident he joined his Ph.D program researching into the origin of the early universe. His close friend Sir Roger Penrose and Stephen Hawking published many research articles on the singularity theorems and Black holes. This year in 2020 Sir Roger Penrose was given Nobel Prize for physics for his contribution in the discovery of Black hole in our centre of the Milky way Galaxy. Hawking was largely supported by his friends and research students throughout his life.

He was married twice and had three children through his first wife Jane. He was awarded scholarships and university grants to proceed further in his research program. Stephen had spent nearly fifty years in the study pertaining to Black holes. He had given many unknown and astonishing facts regarding the Black holes. In tribute to his contribution in this field a greek musician Vongalish has composed a song with Stephen Hawking's computerized voice and the Spain scientists of cosmology are planning to send this voice to the nearest Black hole and it is designed in such a way that the voice will be resonating forever in the space.

He had contributed a lot in the discovery and prediction of Black holes, white holes and worm holes which are strange objects in space and beyond the imagination of the ordinary

Dr.V.Ponnusamy, Supervisor, Vision for Wisdom, Temple of Consciousness, Aliyar, Tamilnadu, India.

Hemalatha Manoharan, Research Scholar, Vision for Wisdom, Temple of Consciousness, Aliyar, Tamilnadu, India. (Email ID: hemalathamanoaran73@gmail.com).

human mind. The discovery which bears his name to it was Hawking Radiation. These radiations are considered to be emitted from the Black hole and this was a great surprise when it was stated by Stephen Hawking to the scientific community. Because Black holes are thought to be utter black objects and devoid of any light emitted by them. But Stephen proved that Black holes radiated faint light from them and they are not completely Black as predicted by the theory.

The principles of thermodynamics was utilized in the Black hole physics and four laws of Black hole thermodynamics was postulated by him. Some of his other contributions are solutions to the information paradox which deals with the fact regarding what happens to the information which goes inside a Black hole, is it destroyed for ever or it is conserved. Stephen Hawking worked hard in the field of unifying the two pillars of theoretical physics namely General theory of relativity and Quantum Mechanics and frame Quantum Gravity to explain the reality through the formula of physics.

Stephen Hawking was very famous for his scientific contribution in the field of physics. Apart from this, he had given many recommendations pertaining to global warming. And how both government and general public should cultivate knowledge and awareness regarding this issue. He also warned that within next thousand years there might occur an impact of the earth from a giant asteroid and the planet cannot survive from that collusion. So he suggested that human race should plan to colonise other planets and avoid complete destruction of the human race from the earth.

If this was not done then the entire intelligent species would be erased from this planet. Stephen Hawking was very much against the use of Nuclear Weapon by the countries including all mighty powers of the world. The amount of Nuclear Weapons, chemical weapons and Bio-weapons produced and stored are enough to destroy the whole world many times. He warns that if by accident the nuclear weapon were activated due to terrorist attack or by mentally affected leader then the disaster would be very huge and it cannot be rectified. Unfortunately that would cause the total destruction of the living organisms on the planet earth.

B. Vethathiri Maharishi

Our Bharat nation is a spiritual land. Many Mahans and Rishis had lived on this planet especially in India and filled this place with their immense wisdom and knowledge. When the entire world was in the veil of ignorance our country was in its peak of civilization.

Vethathiri Maharishi was one such mahans who educated the common people regarding spiritual aspects gained through his deep insight and deep contemplation. Swamiji had laid down many social reformatory schemes for the welfare of the society. He was born in the year 1911, August fourteenth in the Guduvachery village near Chennai. His formal education was abruptly discontinued due to his family poverty and so he studied only upto third standard.

From his early childhood he was very faithful and engaged himself in idol worship of Lord Vinayaka and later gradually as his understanding grew he transcended the worship of the

idol. His spiritual search was guided and mentored by three of his Gurus and they are Thiru.A.Balasubramanian, Thiru Krishna Rao Vaidyaboopathy and Thiru Paranjothi Mahan. The former introduced Swamiji into Bhakthi yoga, the next person made Swamiji well versed in alternate medical system like Siddha medical system, Ayurvedic medical system and Homeopathic medical system and the later guru gave the Shanthi meditation in the Kundalini yoga system.

Swamiji had many deep questions in his mind and he was in constant search of answers to these questions. What was the origin of the universe? What is life? Where do we all go after death? Why poverty? These are some of the questions which Swamiji had in his mind and later he found answers to all the questions. Swamiji attained self-realisation in his thirty fifth year and he established the World community service centre in the year 1958.

His main goal or aim in life was world peace. And for attainment of individual peace he formulated a system which had five steps in it. The first step was physical health, the second was the mental health, the next was inter personnel relationship, the next was cleansing of the genetic centre and finally the Brahmagnana or ultimate wisdom. To attain all these steps he formed the SKY system of yoga and it is known as the simplified Kundalini Yoga System. In this simplified Kundalini Yoga organization many spiritual practices are taught.

The Evolution theory propounded by Vethathiri Maharishi is a great theory given to him by the Divine Consciousness. He states that the entire cosmic manifestation is nothing but the play or dance of the Absolute space. It can also be stated as the cosmic leela of the divine. He explains that Absolute space is not void of substance but in contrast it is filled with the potential substance to create the entire seen observable universe.

He states that the self compressive surrounding pressure force of the divinity itself gave rise to the formative dust particle, the further surrounding pressure of the divinity on the dust particle make it to revolve around its own axis. He further says that the constant friction between the surrounding pressure force and the dissolution of the particle gives rise to the universal magnetism, the dissolution of the magnetism in the space gives rise to what we call as the pancha boothas in nature, they are Akash, Air, Fire, Water and Solid matter and this in return gives rise to the formation of the Panchathan matras namely taste, smell, sound, vision and feeling.

Usually the theory of creation is explained by the religious head either on the basis of creation theory or on the basis of Maya theory. In the creation theory, the divine is bestowed with supreme power and potential and he created the entire universe by his own will. He created each and every entity of the universe personally with his hands starting from terrestrial and celestial planets, the sky, ocean plants, animals and lastly human beings. In the creation theory God has supremacy over all things and he creates, sustains and destroys subjected to his will. He is under no compulsion to perform the creation, it solely depends on him alone.

The physical exercise, different types of meditation, the Kayakalpa practice and introspections are the important components of W.C.S.C. organization. Swamiji had written many books and poems in the tamil language. Swamiji teachings are based on the principles of Raja Yoga and Advaita philosophy. Vethathiriam philosophies are scientifically inclined, and it gives a very satisfactory theory of the universe and it is known as the self transformation theory of the Absolute Space. In this theory he explains how space transformed into the animate and inanimate objects which we perceive today. Moreover he had given some ideas to attain peace in the world and they are named as world peace plan. Swamiji believed that service to humanity is service to the divine. Swamiji designed the two fold cultures for every individual to follow, and fourteen principles which are termed as Vethathiriam for the benefit of the entire humanity. He had supported the scheme to unite all the rivers in the Indian subcontinent. Vethathiriam Maharishi's preachings are aimed to bring reformation in an individual and in the society. For this purpose he initiated the vision for wisdom Academy in Aliyar to enlighten and educate student community with spiritual and intuitional education in the year 2004. Maharishi was a spiritual Guru and a eminent social reformer.

III. SIMILARITY BETWEEN THESE TWO LEGENDS

Science and Philosophy are two different fields which have unique methodology of their own in analysing the reality. Scientist dissect the reality into pieces and try to understand the underlying principles in it. Philosopher brings every parts of reality together and tries to frame a whole picture of the truth. Stephen Hawking was a scientist more precisely he was a theoretical physicist and cosmologist. Vethathiriam Maharishi on the other hand was a layman's philosopher. So both of their attitudes, towards the reality were diagonally opposite to each other. Yet their outlook towards human society were almost similar. Both of them were against wars, they opposed the production and accumulation of weapons.

The use of Nuclear weapons during the war time were strongly regretted by both of them. They warned the outcome of wars fought with the usage of Nuclear weapons. Stephen Hawking was also against the production and storage of chemical weapons and Bioweapons. They both supported the idea that scientific discoveries should be brought to the public knowledge. Every common individual has the right to know the truth regarding the universe which we live in. Vethathiriam Maharishi and Stephen Hawking had written many books in their life time and they both married twice in their lifetime.

IV. CONCLUSION

Nature's secret door can be opened through the keys rendered by both science and philosophy. Only through combining the scientific principles and philosophy together a clear picture of the ultimate reality can be achieved. Sir Albert Einstein had rightly quoted that science without religion is lame and religion without science is blind. So a fusion of these

two fields is the need of the hour and this is supported by almost all eminent personalities in both the fields.

This will result in a society rich in moral ethics and values, with highly advanced scientific technology development. The luxury and sophistication provided by scientific innovation to the individual will be enjoyed with spiritual awareness. The welfare and protection of every individual would be the top priority.

We can conclude by stating that universal love and compassion will cherish if science and religion are bridged together.

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