

The Striking Parallels between Ancient Hinduism and Modern Physics

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Abstract:

The roots of modern physics lies in the ancient scripts of the most profound ‘Eastern Mythology’ – Hinduism. It is not difficult to believe that, those ‘mystic sages’ and their religious writings contains striking parallelism between the theories that physics has developed today and those of *Vedas, Upanishads, Vedantas, Mahabharats, Gitas and Ramayanas*. The immense volume of ancient texts and the believer of a supreme, profound God, the creator of the creation, the oneness among many things, the omnipotent soul, the ruler of this universe, who itself is residing in the higher dimensions is a subject matter of unparallel researches of ‘Indology’ and the ‘Hinduism’ with resemblance to the modern theories of the theoretical and experimental physics that, developed as early as 7000 – 5000 BCE to present day is the subject matter of this paper. Due importance has been chalked out and criticized with respect to the cosmology, particle physics and the ‘eastern mysticism’ especially the ‘Hinduism’ beliefs and its importance to the present day theories being tested in the laboratories which are the key role for the development of the modern day sciences, that also shows, that, the ancient Hinduism was so much developed around thousands and thousands of years ago, which even modern day physics got perplexed to find a parallels with them that ‘How can those sages (*Rishi’s and Muni’s*) of the Indo-Aryan periods developed these ideas so long ago?’.

Ancient Hindu Technologies – Eastern Mysticism – Hinduism & Modern Physics

Introduction:

“If God created the universe; then who created God?” – *Rig Veda (around 1500 BCE)*

(The above statement is itself pretentious and illusory. The statement merely points out about the creation of the universe, and even if we consider God as the supreme creator, then who creates the God.)

‘Hinduism’ is the oldest religion of the Earth. No single roots could be affirmed as regards to the development of this religion. Rather, this can be assumed that, ‘Hinduism’ is the product of different religions, cumulative ideas, mystical figurines, the slowly evolution of ideas, and the preachers of various mystics all together gathered in so called modern ‘Hinduism’. The most obvious answer that one could give regarding the earliest origin of ‘Hinduism’ is that either from the *Mehergarh* civilization or the *Harappan* Civilization at around 7000-5000 BCE. Debates arises when one sees in history that, ‘Hinduism’ might not have a single origin like ‘India’ rather it may be taken in the form of a migratory ancestors of ‘Indians’ from ‘Central Asia’ around 2000-1000 BCE, the so called ‘Indo-Aryans’. Those ‘Aryans’ are not only one of the gems in respect to the philosophy of the natural world that they incorporated by means of various cults and dogmas that they incorporated to the religious texts of ‘Hinduism’- *the Vedas*, but also the proponent of the modern day physics and the space-time approach of the relativity and the oneness among every laws of the universe that, so called modern scientists called ‘The Theory of Everything’.

To those ancient sages who preferred the oneness of the universe, or the supreme enlightened being as the ruler of the universe with the concepts of the ‘multiverse’ scenario that *Lord Krishna* shows to *Lord Brahma* to enlighten him about the philosophy of the universe has been a subject of debate among string theorists who considers that there are 10^{500} vacua states each corresponding to a different universe.

Different sages on different periods of time proposed different philosophy about the ‘Hinduism’ which perhaps made it one of the most profound religion of the Earth and those insights which had been written down in the form of Poems (*Kavyas*) on *Rig, Shyam, Yayur, Atharva Vedas*, the *Upanishads*, the *Puranas*, the (*Mahakavyas*) like the *Ramayana* and *Mahabharata* gives us the concepts of the most advanced theories of the physics like the Atom Bombs, Nuclear Weapons, Flying Vimanas, Concepts like Space-Time approach, Time-Travels, Higher dimensions, Higher world analogies and the usage of advanced tactics and techniques that imposed a scientific knowledge among different rituals and methodologies undertaken between the birth of a ‘Hindu’ till death not only surprises the modern day ‘Indologists’ but also shows us that, the origin of modern physics not only started from ‘Galileo’ and ‘Copernicus’ but from a period far far away in the annals of history (See more [1-5]). Every single rituals of the ‘Hinduism’ comes with a scientific knowledge and could not be viewed as the orthodoxy nature emanating from some pre-historic ages. This itself dictates the parallel tempers between the scientific revolution of the modern day physics with those of the ancient ‘Hindu’ texts.

Methodology:

The 'mechanistic' concepts of Newtonian dynamics have been there for almost 200 years. This absolute and rigid view of spacetime is not totally useless in day to day activities or the prediction of the movements of celestial bodies, but also have profound influence on the dynamics of fluids, the rigid bodies and mechanics of the physical problems. However, this concept has not been validated on extremely high scales or extremely low scales. Therefore, a theory needs to be developed which is, 'dynamic and flexible' and encounters those problems with a task to provide a solutions at the extremity of the natural secrets. Thus came the 'relative' ideas of the Einstein's "Special and General Theory of relativity". These not only unifies the previously unified Maxwellian theory of Electricity and Magnetism, but also establishes a relation between gravity and acceleration in the so called 'principle of equivalence' which Einstein referred to be his 'happiest thought ever'. Physics not only stops in this unifications but also proceeds further to unify the two fundamental pillars of modern physics, the 'General Relativity' with the 'Quantum Theory' in a proposed model of [modified gravity as eg. $f(r)$ theory] 'Quantum Cosmology' and 'Quantum gravity'. However, the resultant theory that comes up as a result of this unification is not only complex and rigorous but also, incomplete in its own aspects. The theory needs modifications and experiments to satisfy the 'free parameters' which lies beyond the engineering capacity of the present day 'human technologies'.

The ancient Aryans, when developed the textures of 'Hinduism' always saw the world as a means of 'volatile and dynamic'. They doesn't stuck with a single goddesses but with a variety of Goddesses' for a variety of Natural phenomena's like Indra, Vishnu, Krishna, Surya – where some are God's of power, some are God's of fire, some are God's of Thunder, some are God's of war. They not only linked each God with each individual aspects of the universe, (where they also believed the nature as a part of the universe) but also, believed in a supreme identity, an identity that is eternal and existent as a symbolism of infinity, an identity beyond any logic, unexplained, unseen, but perceivable as a supreme creator. This oneness and the dynamics of nature along with the unity prevails and entails the parallelism of the modern day physics. The 'Indo-Aryans' as believed to be the creator of the 'Hindu' mysticism, has both types of thoughts, the rational and the intuitive. They expressed the rational thoughts in aspects of natural laws and the intuitive thoughts in aspects of meditation, and self satisfaction to attain the eternal truth free from liberation or *Karma* known as *Makshya*. 'Hinduism' consists of different types of trusts, different forms of worships, different aspects of rituals which as a whole being the product of an higher-dimensional entity that is beyond the known limits of the human beings. These concepts of higher-dimensions is not only proved by the string theory but also counts it as a maximum of '11' to entails with the mathematics. Just like the various cosmological models develops the creation of universe from a 'singularity' in the eternal past and destruction by means of a giant 'big rip', the 'Hindu' textures of logics also explained the creation from a *bindu* and ends in a massive explosion. Not only are the rites and rituals followed by the 'Hindu Priests' or *Purohits* as a form of *Puja* or *Archana* has a logical meaning hidden in them, but also provides a scientific explanations that are too advanced as compared to the time they have been drafted by the *Brahmans* (higher order casts) of the 'Hindus'.

The science of 'Hinduism' not only remains restricted to the casts and rituals but also finds places in the precise architect, engineering, machinery, warfare and kingship. The 'Hindu' temples are really a source of an immense engineering feats of those 'ancient architects' who in the 'before century time' believed to possess knowledge's of the 'angles, sides and their relations' which we modern day call 'trigonometric identities'.

Various kings and various weaponries' have been drafted and pictured in the epics of *Ramayana* and *Mahabharata*. Kings are seen to ride immensely sophisticated chariots leads by pair of horses and they threw arrows which when falls over enemies provides immense damages. Those arrows were not only simple arrows coming from archers by are the nuclear weapons or *brahmastras* spilled by God's to prevent their enemies' from rising and building an empire. Not only those warfare got limited to arrows, but also involved flying ships or *vimanas* as a means of *astras* for destructions. Those identities which are still fascinating to the modern day physicists have been used in pre-historic times. It is not a matter of just saying that 'the wars were actually fought' or 'the stories drafted in the epics' are only just fictions, but the main thing is that they have the ideas and the drawings and the mechanisms for those things.

'Hindus' in the ancient times have immense knowledge of mathematical applications and they used it for prediction of astronomical events such as eclipses, lunar motions, solar motions, heliocentric models and mostly, the universe residing in a multiverse chain with an existence of alternate realities and the 'reality' as nothing but just an illusion of the *Past, Present and Future*, are depicted there.

Physics is just only a domain among many areas of 'Hindu' cultures and knowledge's like 'Physiology and Medicine', 'Botany and Zoology', 'Astrology and Numerologies'. It has been said that India excelled in performing surgeries [quite complicated ones] like cataract, removal of kidney stones under the directions of *Sushrut* which in latter times known as *Sushrut's Salyachikitsya*.

'Hindu' scholars like *Aryabhatta, Brahmagupta, Kanad* gave not only the ideas of 'zero' or *Sunya* but also provides the sciences of gravitations, algebras, motions of heavenly bodies, distances of Sun to Earth, eclipses and the perpetual motion machines. Other scholars have also investigated the idea of a core 'singularity' among everything called as 'Atoms' in a much early periods.

The idea of 'unification' by means of 'Higher Dimensions' had been chalked out by the early Aryan Scholars and they tried to achieve it beyond the materialistic realm of this world in the form of 'meditations'. They have developed rules for connecting with God's [or perhaps the ancient aliens] and communicating with them. To them the all world activities are *lila* and peoples are engaged in this *lila* in the form of *maya*, and the ultimate liberation occurs when people meditates and translates his/her consciousness' beyond the material realm of the worldly activities of the *mayas*. Scientists have 'now a days' started researching about the 'ultimate consciousness' and the 'unification of the physical laws' thinking that 'the whole universe itself is conscious like the human beings' and are part of a much diverse consciousness in a cosmic web of 'cause and effects'. These relations between cause *lila* and effects *fal*

have already been predicted by the 'Hindu' scholars and they also believed that the entire universe is a conscious being beyond the pensiveness of the individuals and can only be stated as a supreme form of consciousness which is *dilute and evolving in an eternal void*. Thus they developed a 'fluid' notion of the universe like the 'relative universe' of Einstein rather than the 'absolute universe' of Newton.

Moreover, *Lord Krishna* who is believed to be one of the most intelligent and diplomatic thinkers among the 'Hindu God's', during his role as a chariot driver in the war of *Kurukhetreya* gives the divinely advice to the *Arjuna* (the best archers of the *Pandava's*) about the philosophy of the life and the judgments of the 'right and the wrong' that is popularly known as *Bhagavad Gita* is no-doubt reflects one of the utter scientific brilliance of the 'Hindu' mythologies.

Conclusion:

'Hinduism' is no-doubt the eternal and ancient religion with a diverse philosophical and scientific approach but also, has found a place in the realms of modern physics in terms of the ideology and the mechanics that has been postulated in the 'literatures and scriptures' by the scholars of the pre-historic eras. Modern science not only needed a refinement of the ancient ideologies but also needed an approach to formulate them in terms of modern laws of physics and mechanics. Taking those ideologies into consideration and advanced with the fluid notion of the rational thinking of the early 'Hindus' will open a doorway for the eternal truth and find solutions and beauties in the philosophies of the natures.

References:

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