

## Exploration

# Wave & Particle Interaction: Soul & Body

Domadala Pramod\*

Dean, Research and Development  
Malla Reddy University, Hyderabad, Telangana, India

## Abstract

All living beings consisting of material body and spiritual energy, created by the Supreme Lord are part and parcel of Him, known as spiritual beings. The body needs energy for movement whereas the energy needs a body to work. In the vedic scriptures, this energy is called a soul. These microscopic concepts of body and soul were well illustrated by the Lord Krishna through the Bhagavad Gita to convince the great warrior, Arjuna who refused to kill his relatives and friends. He had stimulated Arjuna to fight in the war through several ways by explaining in terms of the material and spiritual forms of the human body. He says to Arjuna that you are not killing the opponents, you are only removing the senses and external body. The body is a materialistic form that deteriorates as time passes or when dead, it gets decomposed, whereas the energy gets transformed from one body to another in the form of soul. Thus soul which has spiritual energy, eternal and never be destroyed by any means, but it continues to take birth and birth cycle till it completes its purpose of journey to reach supreme abode. The ancient saints strongly believed and followed this Supreme science and modern scientists have been exploring to establish the experimental evidences of the creation of the living entities soul and body, consciousness, birth and death cycle. As a Physicist, an attempt has been made in this paper to explain the Supreme science in terms of the modern science on the basis of the classical and quantum mechanics principles. The creation of living entities, birth and death are based on the conservation of energy principle i.e., energy is neither created nor destroyed but it gets converted from one form to another form as soul continues to take birth and death till it gets liberation. The soul is a part and parcel of the Supreme Lord so it is a spiritual and possess spiritual energy (E) hence treated as a wave with frequency (f) and wavelength ( $\lambda$ ) and it carries the information of the positive and negative deeds (karma) when it interact with material bodies in each birth, hence here it is termed here as Informative Eternal Energy Particle (IEEP). The soul is a spirit possess spiritual energy hence it is also termed as Spiriton and God particle. The Supreme science is perfect and accurate in creation of leaving entities and their life process. The philosophers, scientists, and neuro-surgeons get struck with consciousness (presence of soul) and non-consciousness (absence of soul) in the body. This paper deals with the metaphysical analysis of a soul ,attributes, influence of three modes of nature, transmigration of souls in terms wave and particle interaction theory. The wave analysis confirms the vedic literature, the same form may not be possible in the next birth.

**Keywords:** Spiritual beings, spiritual energy, body, soul, birth, death, cycle, material energy, conservation of energy, wave theory.

---

\*Correspondence: Prof. D. Pramod, Dean, R&D, Malla Reddy University, Hyderabad, Telangana, India.  
E-mail: dpramod61@gmail.com; dean.rnd@mallareddyuniversity.ac.in

## I. Introduction

The science of the soul has been a debatable subject for many generations. The saints, philosophers, and scientists have been pondering to understand the creation of living entities, the injection of a soul in the material body, and birth and death. The modern science fails to understand the consciousness and unconsciousness of a body. However, the Supreme science creation of life in the body is well described theoretically in Vedic scriptures, Bhagavad Gita and Srimad Bhagavatam<sup>1-2</sup> and living bodies are practically existing in the universe. Lord Krishna had elaborated the divine and mysterious science to Arjuna when he refused to fight and kill his relatives and friends in the battlefield.

The Bhagavad Gita (2.11-12)<sup>1</sup> says,

श्रीभगवानुवाच ।  
अशोच्यानन्वशोचस्त्वं प्रज्ञावादांश्च भाषसा  
गतासूनगतासूंश्च नानुशोचन्ति पण्डिताः ॥ 11॥

śhrī bhagavān uvācha  
aśhochyān-anvaśhochas-tvaṁ prajñā-vādānśh cha bhāṣhase  
gatāsūn-agatāsūnśh-cha nānuśhochanti paṇḍitāḥ

न त्वव्याहं जातु नासं न त्वं नम्राजनाधिपाः ।  
न चैव न भविष्यामः सर्वे वामतः परम् ॥ 12॥

na tvevāhaṁ jātu nāsaṁ na tvaṁ neme janādhipāḥ  
na chaiva na bhaviṣhyāmaḥ sarve vāmatāḥ param

Lord Krishna said to Arjuna "You are mourning for whom they are not worthy to live and wise never lament neither for the living nor for the dead. There was no time when neither I nor you and all the kings and soldiers existed in the world. Everyone was present in different forms in the past and the present and will be in the future. They take a birth and die every time, the birth and death cycle continues as per their karma." The supreme energy soul is eternal, which continues to take birth every time till the soul gets liberation. He had stimulated Arjuna to reestablish righteousness and remove all unwanted miscreants who do not deserve to be on the earth planet, creating adharmic and mischievous activities for innocent living entities for the sense gratification and selfish benefits.

The Supreme science<sup>1</sup> connotes microscopic concepts of body, soul, and super soul, birth and death, karma, the purpose of life, influence of modes of nature, and prerequisites for going back to home. This philosophical science generated various thoughts in the minds of great saints, philosophers, and modern scientists. The great saints Naradha and Vyasa etc. and Indian and Western scientists, and philosophers strongly believed and followed this Supreme science<sup>1-2</sup>. Modern scientists have been exploring the Supreme science to establish the experimental evidence of the creation of living entities body, soul and consciousness, and birth and death cycle. Some may disagree with the concept of rebirth of living entities which are born as per their previous deeds or karma. This can be explained on the basis of the classical and quantum

mechanics principles in terms of the conservation of energy principle- energy is neither created nor destroyed, and for every action there is an equal and opposite reaction (karma-cause and effect) and, wave & particle interaction theory<sup>2-9</sup>.

The soul is a spiritual wave and a massless particle carries spiritual information about the activities performed in the past and present births, calling it an Informative Eternal Energy Particle (IEEP) and modern scientist call it as a Spiriton and it's the part of the Supreme hence it is also called as God particle. The living entities possess spiritual energy (soul) and they termed as spiritual beings. The souls always search for spiritual activities and jubilant and resonance with Supreme to amplify its energy. Such that it always be sat-chit-anand and attain salvation. In general we can say the souls need spiritual education. Vedic cultured families prefer to teach spiritual stories to newborn babies as they possess fresh spiritual energy that comes from the previous birth.

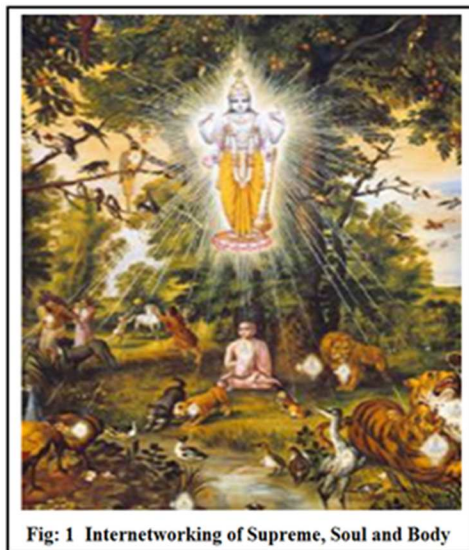
An attempt has been made in this paper to study the properties of body, soul, and super soul, the theory of transmigrating soul from one body to another in terms of wavelength and energy of spiritual waves on the basis of the classical and quantum physics principles and influence of material energy on Spiriton based on three types modes of nature- mode of goodness, mode of passion and mode of ignorance in pictorial form.

## **II. Metaphysical Analysis**

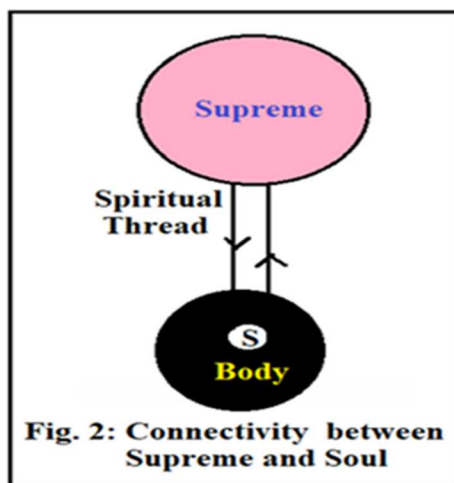
Metaphysics is the study of science and society and interrelation between science and society. The metaphysical analysis deals with axioms and thoughts which are behind the imagination of ordinary people. The meticulous analysis helps to explore and understand the scientific information of any field.

### **a) Super Soul**

The Supreme is omnipresent, omnipotent, and creator as well as controller of the universe - the spiritual and material world through His potency. All living beings are part and parcel of the Supreme Lord. They are connected through the spiritual threads or waves (Fig.1). The Supreme Lord knows all His children about their past, present, and future. The Supreme Lord is known as the Super soul, the sub-atomic energy particles are called souls, which are embodied in the system of living creatures (Fig.1). The souls are interconnecting between the Supreme Lord and material body.



The souls are connected through spiritual threads, they have to be in two way paths (Fig.2). The supreme father always remembers children, but the impure souls like parents cry for children, but they always forget Supreme (second path) and trapped in the material world and randomly move in the birth and death process<sup>1-2</sup>.



Thus there are two kinds of souls - The super soul known as Paramatma and the atomic soul known as Jivatma. Supreme Father has given freewill to spiritual beings to act as per their intelligence in the material world. But He stands and observes all His living entities actions but does not interfere with what is happening in the material body. The super soul collects all the information from the soul for necessary action for proceeding to the next birth.

## b) Material Body

The body is a materialistic form of composition of the chemical substances flesh, blood, bones, etc. It is dynamic as long as it has energy. It exists and it is entangled by the twenty eight attributes (shown in the Table.1) of the material world (prakriti). These attributes play major role to influence the body actions. That results of the activities yield the good or bad deeds. That determines the karma for the next birth. The material body is temporary and undergoes many changes in childhood, youth, and old age deteriorates as time passes and it is destructible and perishable by nature or any external agencies. Once the soul leaves the body, the body is said to be dead. The material body is of no use, since it has no energy, the body gets decomposed. The family members spouses, children relatives, and friends who have been loving and attached to the body are suddenly reluctant to keep the body in the house as it gives a foul smell and would transfer the body to graveyard. At this stage, the difference between the body and soul is clearly visible. Those who are attached to the body so far and suddenly dislike the body and talk about soul and appreciate the soul. A particular name given to the body at the time of birth, we never call it by name, once the body is dead<sup>1-3</sup>.

<b>Table.1</b> Attributes of Material Body - Field of activity			
<b>S.N</b>	<b>Attributes</b>		<b>Number</b>
	<b>English</b>	<b>Sanskrit</b>	
1	Cosmic Elements	Panch bhutas	5
2	Working Senses	Karmendriyas	5
3	Knowledgeable senses	Ganendriys	5
4	Objects of Knowledgeable senses	Tatvams	5
5	Mind	Manas	1
6	False Ego	Ahankar	1
7	Intelligence	Buddi	1
8	Soul	Atama	1
9	Super Soul	Param Atma	1
10	Modes of Nature	Prakrithi Gunas	3
<b>Total</b>			<b>28</b>

The nature of the body implies that one cannot maintain the body indefinitely as per the laws of nature or it gets decomposed when the soul leaves. Therefore in Bhagavad Gita Lord Krishna says to Arjuna "There is no point of the lamentation for the material body as one day it will die". Once the soul leaves the body, it hunts and searches for a new body and takes birth in another material form as per the activities of the previous births. Hence we can say, the soul is using the material bodies as a mode of transport vehicles to reach the Supreme abode. Thus the soul takes millions of billions of births in material form to reach the final destination point Supreme abode.

### c) Soul

The soul is the part of the Supreme energy hence it possess the spiritual energy known as spiriton. The souls are interconnecting energy waves between the material bodies and the Supreme Lord. The object of the soul is to reside with the Supreme father. The souls utilize the material body for improving the positive energy for going back to Godhead. Once a soul takes birth in a material world (called a fallen soul), takes millions and billions of births to go back again to a permanent home. Thus souls need material bodies to complete the journey. But the material body is temporary and it undergoes many changes and decays as time progress. The soul prefers to be pure which is not contented in the rotten state of the body, and will try to escape as early as possible depending on the condition of the body and results of the karma. The same or similar body structure may not appear again but the soul hunts and will take birth in another body in different forms. This is nothing but the conservation of energy principle in Physics i.e., energy is neither created nor destroyed but it gets converted from one form to another. Hence, this has been used to explain the science of the soul.

### d) Attributes of Soul

Bhagavad Gita (2.20-2.25)<sup>1</sup> says,

न जातममृतञ्च कदाचि नां भूत्वा भविता वा न भूयः ।  
अजो नित्यः शाश्वतोऽपि पुराणो न हन्यते हन्यमानश्चरीरम् ॥ 20॥

na jāyate mriyate vā kadāchin nāyaṁ bhūtvā bhavitā vā na bhūyaḥ  
ajo nityaḥ śhāśhvato 'yaṁ purāṇo na hanyate hanyamāne śharīre

वद्धाविनाशिनं नित्यं ऽ एनमजमव्ययम् ।  
कथं स पुरुषः पार्थ कं घातयति हन्ति कम् ॥ 21॥

vedāvināśhinaṁ nityaṁ ya enam ajam avyayam  
katham sa puruṣhaḥ pārtha kaṁ ghātayati hanti kam

वासांसि जीर्णानि ऽथा विहाय नवानि गृह्णाति नरोऽपराणि ।  
तथा शरीराणि विहाय जीर्णान्यन्यानि संयाति नवानि देही ॥ 22॥

vāsānsi jīrṇāni yathā vihāya navāni gṛhṇāti naro 'parāṇi  
tathā śharīrāṇi vihāya jīrṇānya nyāni sanyāti navāni dehī

नैनं छिन्दन्ति शस्त्राणि नैनं दहति पावकः ।  
न चैनं क्लेदयन्त्यापो न शोषयति मारुतः ॥ 23॥

nainaṁ chhindanti śhastrāṇi nainaṁ dahati pāvakaḥ  
na chainaṁ kledayantyāpo na śhoṣhayati mārutaḥ

अच्छद्योऽमदाह्योऽमक्लद्योऽशोष्य एव च ।  
नित्यः सर्वगतः स्थाणुरचलोऽसनातनः ॥ 24॥

achchhedyo 'yam adāhyo 'yam akledyo 'śhoṣhya eva cha  
nityaḥ sarva-gataḥ sthāṇur achalo 'yam sanātanaḥ

अव्यक्तोऽमचिन्त्योऽमविकारोऽमुच्यत  
तस्मादखं विदित्वैनं नानुशोचितुमर्हसि ॥ 25॥

avyakto 'yam achintyo 'yam avikāryo 'yam uchyate  
tasmādevaṁ viditvainaṁ nānuśhochitum arhasi

They imply that all living entities are spiritual beings as comprising of material body and spiritual energy, soul. The gist of all vedic scriptures is to get salvation. The objective of the souls is to reside in the vicinity of Supreme abode. There are millions and billions of souls in the universe. There are two types of souls- pure (realized souls) and impure (bewildered/ fallen) souls, whereas the self-realized souls reside in the highest planet whereas impure souls reside in the material world. By nature, souls are very pure but due to the influence of the material world the souls get contaminated and become impure.

*The soul resides in the heart of living entities. The souls are primeval and invisible. The Lord, though He is Omnipresent, but invisible, similarly the soul is present throughout the living body, yet it is invisible. The way Supreme energy cannot be destroyed the soul is not destroyed by any means. They both eternal and everlasting, with no birth and death, and they are indestructible and immutable and non-transferable. Medically heart plantations are possible but not soul plantations. The soul neither kills anyone nor causes it to kill anyone. The presence of consciousness in the body is the presence of the soul. Breathing is a life force that represents the presence of the soul in the body. As per Bhagavad Gita (2.17)<sup>1</sup> and Mudaka Upanishad (3.1.9) the size of the soul is one ten-thousandth of the upper position of the hair nearly equal to 10 nanometers (the size of the hair is approximately 100 μm)*

Souls have a particular identification (code) that remains the same while they are in the material world or spiritual world. The code of a soul is only known to the Supreme Lord, who controls the birth and death cycle of individual souls as per the deeds of the previous and present births. The birth and death cycle continues among all the 84 lakhs of living species, till the soul gets the positive energy to be in association with the Supreme.

Technically we can call it as an “*Electronic Chip or a Register*” to store the data of past and present births in the form of energy. The soul is a low energetic and extreme high-frequency (EHF) radio waves massless particle, hence here it is termed an Informative Eternal Energy Particle (IEEP). This is created and injected into the body by God so it is also known as God Particle or Spiriton by modern scientists. Upanishads say the soul resides in the heart of the body

and cause a consciousness like the Sun sits at the center of the galaxy and illuminates energy to all the planets. In another way, it is like electricity in the conductor passing through the whole conductor. Once the electricity is disappeared there is no conductivity, so the conductor is said to be dead similarly when the spiritual energy soul is disappear there is no consciousness and the body is said to be dead.

### e) Pure Souls

The highest planet, Supreme abode where the Lord resides glitters like hundreds and millions of suns shine together. The abode is sanctified and filled with unalloyed souls. As per Bhagavad Gita, whoever surrenders to Him unconditionally and who is purer than purest are eligible to enter into His abode. The King of the supreme abode should know who are pure and honest persons to enter to His kingdom. Hence none other than the Supreme Lord has only the power to nullify or reduce the karma and sanctioning authority to any person to enter His abode. Hence only uncontaminated souls are authorized and eligible to enter the Supreme abode, similar to have a pure mind and clean body, and fresh clothes or special attires for entering sanctity of the religious places or garbha gudi of temples.

### f) Types of Spirituality

The purpose of a soul is to get positive deeds with maximum spiritual energy. As per the scriptures this positive energy can be achieved through nine purification process -1. *Sravanam*, 2. *Kirtanam*, 3 *Smaranam*, 4 *Pada-Sevanam*, 5. *Archanam*, 6. *Vandanam*, 7. *Dasyam*, 8. *Sakhyam*, 9. *Atma-Nivedanam* for purification of the soul<sup>1</sup>. These sadanas will lead to remembering the Supreme Lord and will enable one upon living the body to attain the spiritual body which is suitable for association Supreme Lord. Among the nine processes, the easiest one is *sravanam* (hearing) Bhagavad Gita from authorized devotees. The Bhagavad Gita (8.8) says "*One who remembers Me always without any deviation and attachment he is sure to attain Me*". One can be in the material world by continuing the birth and death cycle in 84 lakh species. The practical process of performing spiritual activities is known as spirituality. The spirituality leads to spiritual world whereas the materiality leads to material world (Fig.3).

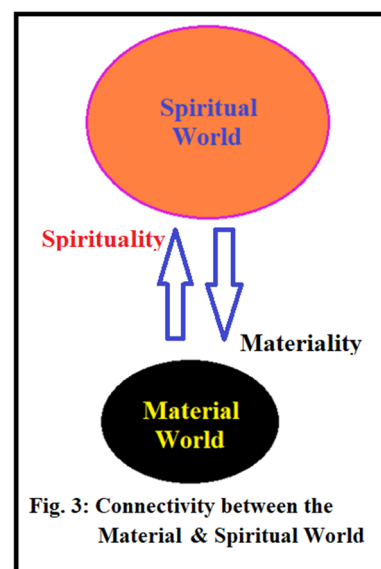


Fig. 3: Connectivity between the Material & Spiritual World

### g) Wave and Particle Interaction

The interaction of the spiritual energy with material body has been a thrust area for many centuries. How does spiritual energy interact with material body? The wave and particle interaction theories<sup>7-8</sup> are well-established in Physics such as Einstein's theory of relativity, Quantum Physics, Compton scattering, and De Broglie's theory etc. The electromagnetic



spectrum consists of low and high energetic waves – radio waves, infrared, visible light, ultraviolet, x-rays, and gamma  $\gamma$  rays

The energy of EM waves is given by

$$E = hf$$

The frequency and wavelength are related by

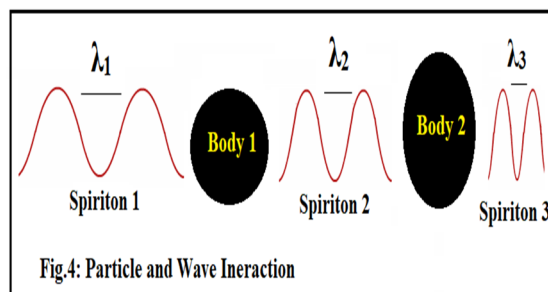
$$f\lambda = C$$

$$E = hC / \lambda$$

Where, E energy, F frequency, and  $\lambda$  is the wavelength of waves and C is the velocity of light. The spiritual waves are Extremely High Frequency (EHF) radio waves totally different from the EM waves and are not harmful to living entities.

The Compton scattering is of prime importance in radiobiology, especially in radiation therapy gamma and high intensity X- rays interact with atoms of living beings<sup>8-9</sup>. The wave theory can also be applied to study souls spiritual energy waves. The spiritual waves (SW) souls also interact with the living entities. The SW waves also possess wavelength and frequency similar to EM waves. As per the vedic scriptures, there is no birth and death for the soul, and gets transformed from one body to another with more or less spiritual energy. This is nothing but the conservation of energy principle i.e., energy is neither created nor destroyed but it gets converted from one form to another. This conservation energy principle was already illustrated in vedic scriptures - Bhagavad Gita. Thus the emitted energy depends on the composition and structure of the body. When a soul enters into the body, it gets a life and body changes as a time passes but the soul remains as it is but it stores the information of the past and present activities, and the soul leaves the body at the time of death with high or low spiritual energy. Hence as mentioned in the introduction, soul can be termed as Spiriton as it contains Informative Eternal Energy Particle (IEEP) or God particle.

The soul needs a body for propagation and the body needs a soul for action. Hence it enters every new material body after death of previous body. The output of the previous body will be the input to the next body. The soul takes the next birth as per the Karma performed in the previous births. The properties of the soul are the basic characteristics for the next birth. The positive and negative spiritual energy of the soul depends upon the bad and good activities performed by the body. The soul interacts with material body which is the composition of twenty eight (28) attributes (Table.1). The outcome of the spiritual energy after death of the body may be good or bad, positive or negative depending upon how the body interacts or behaves with the eight above parameters.



$$\Delta \lambda = \lambda_2 - \lambda_1$$

$$\Delta f = f_2 - f_1$$

$$(f\lambda = C)$$

= **Positive, if positive karma**  $f_2 > f_1$

= **Zero, If no improvement**  $f_2 = f_1$

= **Negative, if negative karma**  $f_2 < f_1$

Where,  $E$  energy,  $f$  frequency and  $\lambda$  is the wavelength of waves and  $C$  is the velocity of light.  $\lambda_1$ , the wavelength of the input soul at the time of birth and  $\lambda_2$  is the wavelength of the output soul after death.  $\Delta \lambda$ , change in wavelength and  $\Delta f$  change in frequency of input and output waves (souls).

There exist only three possibilities. The frequency of the spiritual energy may be more (positive) or zero or less (negative).

If the output of the spiritual energy is greater, soul may take birth in higher levels, may be in a highly elevated spiritual or scholar families or may go to higher planets. In case it is very high i.e. suddha sattvik (purer than purest) the soul may go to the final destination Supreme abode, and attain liberation.

The second possible case is  $\Delta f = 0$ . It is very rare to attain it, because some bad and good deeds will take place in the life process. Hence the scripture says, it is very difficult to get the same and exact material body. It shows that there always be change in the next birth.

The third possible case the frequency is negative. It implies the spiritual energy less due to many adharmic activities such as criminal, wicked, corruptive, jealous nature, etc., which must have been performed in the previous births. Such impure souls may not take birth in the same form in the material world also and it may go to lower heinous planets (pathala loka). Thus the karma is the determining factor for next birth.

The brief mathematical expressions of karma in terms of spiritual energy give information about the pious activities performed during the lifetime. It needs to be further explored in terms of the mathematics as well as the experimental analysis. It is difficult and impossible to measure before birth and after death but one can measure the spiritual energy immediately after birth and just before death or late stages of old age provided accurate measurement tools are available.

## h) Influence of modes of nature

The living entities are entangled in the material world as soon as the soul enters into the body. The activities of the living entity depend on the 28 parameters namely. The body interacts suhans (previous deeds) of the with soul and perform collects the outcomes of field of activity as energy. The material energy called maya plays a major role as it is an obstacle or hindrance to the

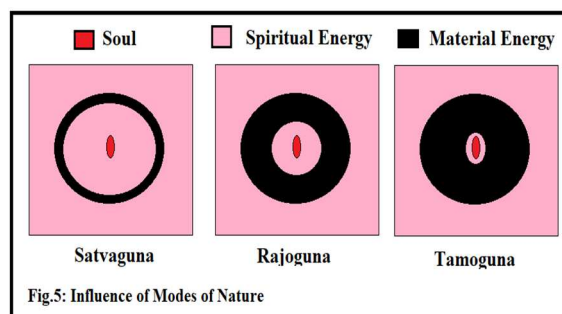


Fig.5: Influence of Modes of Nature

transcendental path for attaining spiritual energy. The Fig.5 represents the influence of three modes of nature- i. mode of goodness (satvaguna), ii. mode of passion (rajoguna) and iii) mode of ignorance( tamoguna) on the soul. A soul is pure by nature. Each soul has some degree of spiritual energy, it varies from soul to soul. An infant baby will have generally pure soul at the time of birth, of course, it has suhasans or carries forwarded results of good and bad deeds (karma) of previous births. The positive activates or spiritual energy can be explored depending on the system where the soul is born in a family of satavaguna, raja guna or tamoguna<sup>1</sup>,

In the figure (5), the red color shows the spiritual energy of soul, the pink color shows spiritual activities or energy and the black color represents material energy or maya. The whole universe is filled with spiritual energy. A child who is born in satvaguna family where the maximum percentage of spiritual practices or dharmic activities exist in the house, such a child (soul) who possesses internal spiritual energy from birth, will match with that of family or surroundings can surely acquire spiritual energy in a quick time and easy to be in the transcendental path and to get liberation.

In the rajoguna case, the house has nearly equal material and devotional activities, the soul would like to attach to the spiritual waves, but the material activities are so lucrative and dominant that the senses and mind easily distract towards selfish gains rather than spiritual gains.

In the third case, thomoguna, the house is selfish and more of sensual pleasures filled with atrocities where there is no sign of at least a helping or kind nature, which will surely suppress the spiritual temperament of the child. If the spiritual energy is strong which is transmigrating from the previous birth can cross over the material energy. It is difficult but not impossible. In the literature, we find many ideal examples like Prahalda, Valmiki, Viswamitra, Satya Harichndra, Bhisma, Yudhistra, and Drupadthi who crossed over the material obstacles reached the supreme abode and attained liberation. The person who controls the senses can overcome material energy and can attain and go back to the supreme abode. Souls like spirituality and hate materiality. However, due to the dominance of material energy, the spiritual energy may not grow in the body.

### III. Conclusion

The Bhagavad Gita is a Supreme Science to enlighten the people about the purpose of life. In other words it is a human resource manual to lead a spiritual life by staying in the material world. The living beings are spiritual beings, a part of the Supreme potency connected through souls of spiritual energy by through invisible spiritual threads. The souls are termed as Spiriton or God Particle. The purpose of human life is to understand the agony of living entities to reside in the supreme abode. The fallen souls are impure, trapped in the material world and birth and death cycle is continuous and till it gets liberation.

The present study in this paper confirms that birth and death cycle of living entitles are based on the conservation energy principle which was well defined and well established in the Supreme science of Bhagavad Gita. The visible all physical bodies are temporary, active and dynamic as

long as the spiritual energy souls are present, once they leave or disappear, the body is said to be dead whereas the souls are permanent and eternal and non-destructible by any weapons or by any method.

The transmigration souls are explained in terms wave and particle theory based on Compton effect. The aim of the souls is to travel and reside in the Supreme abode. The souls are part of the Supreme Lord they like spiritual activities and spiritual education. During this journey the souls enter into a material body with some spiritual initial energy (based on the previous karma) and gives a birth to the body and reside for some time and leaves the body after death with some positive and negative energy. Thus interaction of soul and material body continues till it reaches final destination.

When the souls are in physical body, they are under the influence of three modes of nature - sattva, rajo and thamo guna. Depending on the degree of intensity of gunas, some impure souls may reach easily to destination or some may be retained in the same material world or take birth in lower planets worse than this.

The analysis presented in this paper enlightened us how of a soul wave interact with a material body. It needs for further exploration to understand they influence of the manmade activities on the soul which are determined parameters for the next birth. It further confirms that it is very difficult to get the same in the next birth.

**Acknowledgment:** This research work is carried out under the research project titled "Study of metaphysical analysis of Bhagavad Gita and Srimad Bhagavatam: Laws of Karma, Soul, and Purpose of Life." sanctioned by the Indian Council of Philosophical Research (ICPR) Ministry of Education, Government of India vide letter No F.No.4-39/22-23/P&R/ICPR dated March 26, 2023. I am thankful to ICPR for sanctioning the research grant.

## References

1. Bhagavad Gita As It Is: A.C Bhakti Vedanta Swami Prabhupada, (1972): The Macmillan Company New York.
2. Srimad Bhagavatham: A.C Bhakti Vedanta Swami Prabhupada, The Bhaktivedanta Book Trust Juhu Mumbai, India.
3. Life comes from Life: A.C Bhakti Vedanta Swami Prabhupada, The Bhaktivedanta Book Trust Juhu, Mumbai, India, July, 2014.
4. Identity & Attributes of Humans In the Material world: The Goal of Human life : D Pramod, . Scientific God Journal, Vol 15, Pp 21-32, April 2024.
5. On Mind, Senses, Soul & Universal Consciousness D Pramod & D S Prateek Journal of Consciousness Exploration & Research| May 2016 | Volume 7 | Issue 5 |pp. 395-403. <http://jcer.com/index.php/jcj/article/view/567/585>
6. <https://plato.stanford.edu/entries/ancient-soul/>.

7. [https://www.differencebetween.com/difference-between-soul-and-vs-body/#google\\_vignette](https://www.differencebetween.com/difference-between-soul-and-vs-body/#google_vignette).
8. Quantum Theory of Souls, Dr Zhigang Sha & Rulin Xiu, July, 2024, <https://doi.org/10.32388/I2DN27.3>
9. [https://eng.libretexts.org/Bookshelves/Materials\\_Science/Supplemental\\_Modules\\_\(Materials\\_Science\)/Electronic\\_Properties/Compton\\_Effect](https://eng.libretexts.org/Bookshelves/Materials_Science/Supplemental_Modules_(Materials_Science)/Electronic_Properties/Compton_Effect).
10. Sears and Zemansky's University Physics with Modern physics, Hugh D. Yong, Roger A. Freedman, Publication: Pearson Education limited. 2019.
11. Quantum Theory of Consciousness, Dr Zhigang Sha & Rulin Xiu, Journal of Applied Mathematics and Physics, 11, 2652-2670 doi: [10.4236/jamp.2023.119174](https://doi.org/10.4236/jamp.2023.119174)  
<https://www.scirp.org/journal/paperinformation?paperid=128000>,
12. Physics and the Immortality of the Soul, Carroll, Sean M. (2011), Archived 6 October 2011 at the Wayback Machine. Scientific American. Retrieved 2014-10-11