

# Description Of Tantric And Vedantic Principles In Terms Of Modern Physics

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## Abstract:

The total energy of the brahmamda or cosmos is zero. The brahmamda as such can be divided into equal positive and negative energies. Here, the boundary or uncertainty aspects of real-time and spatial dimension are analyzed with reference to chakras or no-boundary phenomena. The function of dark energy is the division of brahmamda, separating positive and negative energies. In the Zodiac-signs, the formation of composite structures (atoms, molecules, and body) is created within the realm of uncertainty principle. Any unbalance due to deficit of energy causes real-time uncertainty. In the Rashi-chakra, the adha-prana effect (gluon action on photon) or spinor-field effect is the effect of electromagnetic energy on positive energy. The adha-prana forms spinor-field or karma and that counteract and balances the dark energy tensor fields. In the higher dimensional energy realms, the deficit of positive energy experience vacuums due to balancing of dark energy tensor effect with light energy spinors. The Sri-chakra has spaces that function both in Zodiac-signs and Rashi-chakra. The Sri-chakra is operating in the region of boundary (dimension following Heisenberg's uncertainty principle) as well as no-boundary (beyond uncertainty principle). Brahmamda has different universes with a group of imaginary-times, called Kamakala-chakras (the spinor fields that balance the Euclidian dimensional tensor fields) and as per Tantra-shastra there are sixty-four main Kamakala-chakras. The brahmamda is operated by the unmanifested cosmic energy principle such as Vishnu-tattva (Shakti-tattva or Prakriti) and manifested principle, Shiva-tattva (Purusha or space-time). The space-time is made boundary or no-boundary by the un-manifested cosmic energy (Prakriti). Boundary cosmos is made into no-boundary cosmos by the un-manifested cosmic energy. For example, the asymptotic freedom experienced by the quarks. The Sri-chakra is basically the dark energy and light energy action that proceeds from higher energy imaginary-time to lower energy imaginary-time. The above reverses at the higher level of Sri-chakra, that is evolution of brahmamda over time or formation of CPT symmetry, and the evolution is from real-time to imaginary-time. The research attempted here is an exploratory research based on discussions made with Tantric saints that find parallels with Modern Physics.

**Key words:** Tantra, Shiva-Shakti, brahmamda, Zodiac signs, Rashi-chakra, Sri-chakra, Kamakala-chakras, Vedanta, etc.

## Introduction

The total energy of the cosmos or brahmamda is zero according to Stephen Hawking [1,2]. The brahmamda as such can be divided into equal positive and negative energies. The observations based on Cartesian division and reduction as per Heisenberg's uncertainty principle, the total energy can be written as "Positive energy +  $mc^2$  = Negative energy" [3]. As per tantric terminology,  $mc^2$  (deficit of positive energy) is adha-prana

(photon with mass). The negative energy corresponds to adha-prana is jiva [4]. The deficit of energy causes real-time uncertainty. Real-time is followed with spatial dimension and mass. Imaginary-time is inward and leads to no-boundary. As per uncertainty principle,  $\Delta E \cdot \Delta t \geq h/4\pi$ , where  $h$  - the hub,  $\Delta E$  - manifested packet of energy, and  $\Delta t$  - real time. Also  $\Delta p \cdot \Delta x \geq h/4\pi$ , where  $\Delta p$  - change in momentum and  $\Delta x$  - change in spatial dimension. Intermediate vector bosons

( $W^+$ ,  $W^-$ , and  $Z^0$ ) cause boundary or scalar field [5,6]. Particles are naturally balanced with anti-particles. All these balancing effects are dealt by CPT symmetry. (C- symmetry means if there is particle, then there is anti-particle also. P-symmetry means particle and its mirror image symmetry. If there is left hand motion, then there is right hand motion as well. T- symmetry means, if there is forward direction of time, then there is backward direction of time also) [7].

Chakra means the balancing action of forces at various energy levels [8]. It represents the quantum dynamics. There are three basic cosmic adhara-chakras (Zodiac-signs, Rashi-chakra and Sri-chakra) and seven body-based adhara-chakras (Muladhara-chakra, Svadhishtana-chakra, Manipura-chakra, Anahata-chakra, Vishuddha-chakra, Ajna-chakra, and Sahasrara-chakra). The boundary or uncertainty aspect of real-time and spatial dimension can be analyzed with reference to the following cosmic adhara-chakras (no-boundary phenomena) [9,10].

1. **Zodiac-signs:** It is the positive-energy based photon in the realm of dark energy [11]. It involves the basic jada-dravya nature of the cosmos (Kshara-brahman).
2. **Rashi-chakra:** It is the effects of positive-energy based photon and negative-energy based gluon in the realm of light energy [12, 13, and 14]. This is beyond Higgs's boson field, and it manifests energy, space, space-time, and awareness (Akshara- brahman) [15, 16].
3. **Sri-chakra:** Both Zodiac-signs and Rashi-chakra are functioning to form boundaries. In Sri-chakra the whole dynamic system is awakened, and the light energy spinor-field is completely in action. The space-time Shiva is awakened in this process [17, 18]. It is both real-time and imaginary-time aspects. (Real-time is Kali and the imaginary-time is Shakti) [19, 20].

#### **Zodiac-signs (Kshara - brahman):**

The brahmada (prana-jiva) is under the control of the three basic energies - dark energy, light energy, and gravitational energy. Dark energy or dark matter (tamo-dravya or nizhal-dravya) causes the

division of brahmada, separating positive and negative energies and separating positive energy forming mass. Positive energy with dark energy form mass of intermediate vector boson and Higgs boson [21, 22]. Positive energy with light energy forms electric charges, color charges and light masses. (Charge is ahamkara or ego). Dark energy sets the wave or particle size (or curved space-time) [23]. Dark energy causes tensor field.

In the Zodiac-signs, the formation of composite structures such as atoms, molecules and body are created within the realm of uncertainty principle. Here the weak interaction is predominant. In the realm of uncertainty, no-boundary dark energy (flux lines) is broken up into intermediate vector boson, such as  $W^+$ ,  $W^-$  and  $Z^0$  force particles. This is setting the particle or wave size (imaginary-time). This is balanced by light energy spinors. Any unbalance due to deficit of energy causes real-time uncertainty. Real-time is followed with spatial dimension and mass. Imaginary-time is inward and leads to boundary.

As per uncertainty principle,  $\Delta E \times \Delta t \geq h/4\pi$ , where  $h$  - hub,  $\Delta E$  - manifested packet of energy, and  $\Delta t$  - real-time. Manifestation of change in energy  $\times$  Manifestation of time  $\geq h$ ,  $h$  is certain eigen-value. When indriyas come down, corresponding real-time also increases. If there is a real-time, there is manifested energy (Rahu-keelakam effect) [24, 25]. Intermediate vector bosons ( $W^+$ ,  $W^-$ , and  $Z^0$ ) are doors to no-boundary or scalar field. Also  $\Delta p \times \Delta x \geq h/4\pi$ , where  $\Delta x$  - change in spatial dimension,  $\Delta p$  - change in momentum. If there is a manifested spatial dimension, then there is a change of momentum. Spinor gives momentum [26].

In Zodiac-signs, even though there is light photon, it is acting in the boundary region only. That is photon is separated into particle and antiparticle or matter and antimatter [27]. Light is basically electromagnetic consisting packets of energy,  $E = h\nu$  [28]. In Zodiac-sign, photon is jada or adha-prana (positive energy with boundary photon). But photon is pure at the same time. The problem is observer related as the universe is observer related. (In Zodiac sign, intermediate vector boson effect and Higgs's boson effect are predominant.)

### **Rashi-chakra (Akshara-brahman):**

In the dark energy region, photon is functioning as adha-prana. Dark energy fields (grahas) cause tensor field and sets separation between positive energy and negative energy (imaginary-time to real-time) and separating positive energy into particle and anti-particle, matter and anti-matter (as per CPT symmetry). The effect of weak interactions (intermediate vector bosons,  $W^+$ ,  $W^-$ , and  $Z^0$ ) and Higg's boson form indriyas (hole or tensor field) [29].

In the Minkowski space region, the two light cones are like the intermediate vector bosons ( $W^+$  and  $W^-$ ). The deficit of positive energy ( $mc^2$ ) due to dark energy splits into two, the future light cone and the past light cone. The center point in the Minkowski space is in the imaginary-time [30]. This represents the no-boundary dark energy. Adha-prana effect is basically two, CPT Symmetry (ahavaneeyagni) and uttarayana (yogagni or winter-solstice). Orbital or orbit effect is dakshinagni (destruction effect). Adha-prana is the divisive form of energy. It is the available energy or entropy-based energy or the energy that causes uncertainty or spontaneous braking of CPT symmetry [31,32].

If all symmetries are followed for each particle, then there is no complicated structure formation. This means the particle effect and anti-particle effect will be equal and no separation between them. But, in the cosmos (according to Stephen Hawking) combined CP symmetry is maintained, but there is no time symmetry. This is adha-prana effect. If time direction is set forward, the effect is big-bang expansion [33]. That is more particles are created than anti-particles (garhapatyagni effect).

In the Rashi-chakra, the adha-prana effect of light or electromagnetic energy manifests out of positive energy. This adha-prana (photon with mass) effect is the material effect. The adha-prana effect is felt by positive energy within the uncertainty principle. The adha-prana forms spinor field (karma) and that counteracts and balances the dark energy tensor fields [34]. The adha-prana effect in the world is up to gross matter and sub-atomic level with mass.

Adha-prana concept is that of photon with mass, atomic concept of CPT symmetry comes in classical physics.

The action of photon is Om, and the negative energy field (gluon) is Soham (gravitational energy effect) [35]. Cosmic space effect is Soham. Adha-prana cosmic effect as per Heisenberg's uncertainty principle manifest atoms, molecules, and gross matter. (There is separation between positive energy and negative energy and the separation is due to mind). That is, there is separation between positive energy and negative energy, the separation is hole-theory (proton-holes, electron-holes, nuclear-holes, etc.). The hole that is formed due to intermediate vector boson is called nuclear hole (strong interaction). Strong interaction leads to higher energy hole or confinement [36]. This separation is hole-theory (aham or karma or mind) [37].

If time duration is set backward, anti-particle effect is more, dakshinagni effect (destruction effect). Time in forward direction is garhapatyagni effect. Time direction is neither backward nor forward, ahavaneeyagni effect (no-mind state) [38]. Origin to orbit (or orbital) is garhapatyagni effect (creation of orbitals or atom). Orbit or orbital to origin (zero) is due to dakshinagni (both have latitude, longitude, and radius effects, one creates and the other destroys). The orbital is fully exhibited with two electrons, one electron is going outward, and downward exposing world (or particle history) and the other electron is going inward and upward, exposing nucleus (or wave size or particle size). The spin of the two electrons forms the orbital [39]. (Creation of polarity, south polarity is Rahu, and north polarity is Ketu, and their separation is keelakam (or pin effect). Orbitals determine the real-time motion and spatial dimension within the uncertainty. Orbital is basically Rahu-Ketu effect, and orbit is Shani effect).

The higher dimensional energy realms may be due to dark energy, and light energy. The deficit of positive energy experiences vacuums due to balancing of dark energy tensor effect with light energy. (Here, the flat space-time or no-boundary

real space-time is awakened.) [40]. The uncertainty effect (Rahu-Ketu keelakam effect) is the  $mc^2$  effect or garhapatyagni effect [41]. This is the amplitude or particle-wave duality effect [42]. Both dakshinagni and garhapatyagni are like the two light cones of the Minkowsky space-time diagram [43]. The meeting point of the two cones lies in the imaginary-time and hence it is in line with flat space-time (vacuum which is beyond Higg's field). Minkowski space is both ahavaneeyagni and yagagni. Quarks and anti-quarks are in the region of yogagni and yajnagni [44]. Electron and positron are in the region of ahavaneeyagni and yagagni.

Quarks and anti-quarks come in the region of urdha-prana, as quarks and antiquarks have asymptotic freedom and hence can experience no-boundary [45]. No-boundary space-time is yogagni. Urdha-prana (photon without mass or uttarayana) experiences asymptotic freedom, means the particle is beyond the region of uncertainty. Photon can cause adha-prana by separating  $mc^2$  from positive energy and the photon can cause urdha-prana by merging  $mc^2$  into the totality positive energy.

The gluon particle measures the level of negative energy as the gluon is mostly in the no-boundary region (with no mass). Since quarks and anti-quarks are the particles that experience no-boundary asymptotic freedom, the gluon interacts with it and get confined (keelakam effect) [46]. The movement of gluon determines the energy level of imaginary-time. The energy of the imaginary-time depends on the separation between gluon and photon. In the rashi-chakra, both the adha-prana and urdha-prana effects of photon are taken. Rashi-chakra effect is up to asymptotic freedom (relativistic effect). The Rashi-chakra is mainly the balancing of dark energy tensor fields (Zodiac-signs) with higher light energy relativistic effects (Einstein's special theory of relativity) [47]. Quark is having both no-boundary and asymptotic freedom. It can experience the zero-mass level also [48]. Charges are created due to weak interaction or intermediate vector boson effect.

Matter and energy region of the cosmos is beyond Higg's field region, the atom (or ion or molecule or matter) concept. The effect of photon is secondary, as the photon goes into matter state because of the action of the scalar and vector bosons, and the spinor field becomes predominant [49]. Both Akshara-brahman (sat-chit-ananda) and Kshara-brahman (Zodiac-signs) are Om [50, 51]. As per Tantric science jada-brahman represents the changing nature of cosmos and jiva-brahman represents the truth behind the cosmos. Zodiac-signs manifests sum over histories, deficit of energy and all information [52].

Akshara-brahman represents the truth or eternal nature or existence or consciousness. Normally, in Vedic terminology helio-centric means jada-brahman, which is the cause of all material things in the universe. Jiva-brahman represents the star (or hollow or vacuum or string) cosmos, which is the no-boundary cosmos [53]. The light relativistic beyond Higg's boson field is Akshara-brahman. The observer or particle will always move in straight line (Newtonian matter effect). Einstein's light relativistic (particle that travels in curved spaces), dark matter effects are accounted in Zodiac-signs (Kshara-brahman or jada-surya chakra).

### **Sri-chakra:**

In the first two chakras, the deficit of positive energy (karma) is analyzed and is based on Vedas. The cosmos (brahmanda or jiva-prana) is firstly divided into positive energy and negative energy and then the positive energy forms energy deficit as packets of energy  $mc^2$ , which is the relativistic uncertainty that manifest real-time and special dimension. In the adha-prana region,  $mc^2$  is separated from positive energy and in the urdha-prana region,  $mc^2$  is merging with positive energy. Richard Feynman's diagram has incorporated the first two chakras (the spinor field was analyzed by Dirac and Whales) [54]. The Sri-chakra has spaces that function in Zodiac-signs and Rashi-chakra. However, Sri-chakra is operating both in the region of boundary and in the region of no-boundary. No-boundary effect is dealt more in Rashi-chakra. The strong interaction of dark energy decreases in the higher light energy region. Hence, Sri-chakra deals

mainly quantum chromodynamics (QCD) [55]. Since the no-boundary or imaginary-time is formed, cosmos or brahmamda (vacuum energy) is exposed. Brahmamda has a groups of imaginary-time energy levels of different universes, called Kamakala-chakras, and there are sixty-four such Kamakala-chakras as per Tantra-shastra.

The cosmos is a combination of positive energy and negative energy in photon and gluon. In the Sri-chakra, the three basic cosmic energies that form brahmamda are dark energy, light energy, and gravitational energy. These energies can be represented in an equilateral triangle. The three energies are beyond brahmamda and if it is in equilibrium, the whole cosmos becomes a no-boundary. If dark energy effects are more, it divides the brahmamda into different boundaries. If light energy effects are more, different spinor fields or different imaginary-time levels or different Kamakala-chakras are created. In the vacuum quantum chromodynamics, the positive energy of the quark or anti-quark experiences color charges in the adha-prana (boundary) action of the photon. Similarly, the positive energy experiences flavors (six flavors) due to the gluon action. The vacuum quantum chromodynamics shows that there is vacuum energy or vacuum field, where the no-boundary cosmos rests. The cosmic no-boundary is created by beyond cosmic energies, Vishnu-tattva. Hence, the no-boundary is to be supported beyond cosmic space-time for its equilibrium. The manifested brahmamda or cosmos is formed by the unmanifested cosmic energy principle, Vishnu-tattva or Shakti-tattva or Prakriti and the manifested space-time principle is Shiva-tattva or Purusha.

The Sri-chakra function is basically vacuum quantum chromodynamics. In this chakra, all the force fields such as spinor fields and tensor fields are present. The cosmos is basically different imaginary-times (different vacuum energy levels) manifested due to balancing action of tensors and spinors [56]. The different imaginary-times are due to the combining effect of different positive energy level (photon effect with different negative energy levels). The cosmic no-boundary is due to the action of basic energies such as light energy and

dark energy. Here, gravitational energy is silent. The higher dark energy effect in the Sri-chakra forms anti-gravitational energy or real-time and is balanced by light energy spinors. The Mahameru or Jada-shiva which is the space-time that is going beyond the cosmos or brahmamda. The energy dynamics that form the cosmic no-boundary, asymptotic freedom also extends beyond the cosmic no-boundary. In the Sri-chakra, the energy principle is supreme and the Shiva-tattva is known as Raja-Rajeswari (Tripura-Sundari or pyramidal energy).

### **The five ways of manifestation of energy:**

- 1. Dakshinam** - Dark energy effect is causing curved space-time or matter [57]. Dakshinam is creation of real-time, mass, spatial dimension and it is governed by Heisenberg's uncertainty principle. Dakshinagni is the spinor field that balances the effect produced by tensor fields. Dakshinam is basically quantum electrodynamics (QED) [58].
- 2. Vamam** - It is basically the quark and anti-quark effect. Here the color charge is balanced by higher energy quantum chromodynamics (QCD).
- 3. Mishram** - It is the combined effect of dakshinam (QED) and vamam (QCD) principles. Here the no-boundary is due to the combined effect of QED and QCD [59].

Dakshinam, vamam and mishram are in the realm of classical or relativistic universe (adha-prana effect), which is dark energy verses light energy effect.

- 4. Kaulam** - This is urdha-prana effect. Here the deficit of positive energy finds the photon and becomes one with the totality positive energy. However, there is separation between positive energy and negative energy. Urdha-prana is higher energy no-boundary. The Richard Feynman's diagram is an example of urdha-prana effect.
- 5. Samayam** - It is no-boundary with motion. No-boundary is vacuum field. All the above chakras are in urdha-prana and adha-prana, where there is separation between positive energy and negative energy. Samayam means the combined effect of positive energy and

negative energy. The combined effect forms two aspects. Vacuum without motion (jada-shunyata) and vacuum with motion (higher energy vacuum and lower energy vacuum). In vacuum without motion, there are different imaginary-time levels.

The three manifestations of energy, dakshinam, vamam and mishram of Sri-chakra are such that dakshinam means dakshinagni, vamam means garhapatyagni and mishram means ahavaneeyagni. These three adha-prana form complicated structures under Heisenberg's uncertainty principle. Urdha-prana is the merging adha-prana or dissolution of uncertainty. Urdha-prana results the no-boundary asymptotic freedom. Yagagni is urdha-prana. This yagagni or no-boundary imaginary-time is based in the totality space-time or Shivagni. (Yagagni is Vishnu-tattva or Shakti-tattva).

The Sri-chakra is basically dark energy and light energy actions [60]. Hence, it proceeds from higher energy imaginary-time to lower energy imaginary-time. Shiva-tattva only witnesses the evolution of spontaneous breaking of CPT symmetry of the cosmos under the action of the Para-cosmic energy principle, "Para-vidya" [61]. The Para-vidya manifests according to its own iccha, jnana and kriya [62]. Para-vidya basically forms two principles, Shakti-tattva and Shiva-tattva [63]. In the Sri-chakra, there are two times that are predominant in real-time. In Minkowsky space-time, the real-time is within the light-cone and imaginary-time is beyond light-cone. The two light-cones represent the intermediate vector bosons. The imaginary-time is the meeting point of the two light-cones. Minkowsky space-time comes in adha-prana and Sri-chakra comes in urdha-prana. Imaginary-time is beyond Minkowsky space-time and within Sri-chakra.

The imaginary-time or urdha-prana, the dark energy effect manifest as real-time particles or bodies or matter as per Heisenberg's uncertainty principle. The normal direction of Sri-chakra is formation of different energy levels of universes with light and dark energy effects. Here, the brahmanda or cosmos manifestation is in the

direction of spontaneous breaking of CPT symmetry. The urdha-prana (Kali aspect) is the reverse process, evolution of brahmanda over time or formation of CPT symmetry. It proceeds from real-time to imaginary-time. The basic energy principle that acts here is gravitational energy and it invokes real-time to imaginary-time. The brahmanda proceeds from boundary to no-boundary level and it merges in Shiva-Shakti [64]. Here, Shiva is beyond brahmanda, and beyond space-time. This is Param-jyoti, light without waving, light without worm hole, supreme light [65]. Shakti is both motion and beyond motion. Here, Shiva is based in Shakti and Shakti is based in Shiva. Both together is known as Para-brahmam or Para-Shakti or Shiva-Shakti and the brahmanda is based in Shiva-Shakti.

### Conclusion:

Force field can manifest as vector field and force-energy field (or force-particle field) [66]. Vector field comes in Rashi-chakra. (Body-chakras are not vector fields). Vector fields can be intermediate vector fields and vector gauge fields [67]. Force-energy fields are Tantric. Tantric chakras are vector fields. Tantric kundalini-shakti is energy field [68]. Energy field manifest padma that has d-brane or membrane dimension [69]. The observer lies in different levels of observations. Based on the spacing or deficit of energy, the observer becomes particle observer (or wave observer or scalar field observer or observer at the level of quark or no-boundary observer or continuum observer). When matter-energy awareness is activated, the observer comes to no-boundary space-time. Space-time vector field and force-energy vector field can merge into one which is a no-boundary concept [70].

The difference between Vedanta and Tantra lies in the analysis of field and continuum. Force-energy concept is the string concept [71]. Force-energy is the jiva aspect of vector field. Chakras have no-boundary nature as well as jada or scalar nature. According to Stephen Hawking, even space-time no-boundary is based on finite dimensions (for example, quark) [72]. Physics analyses electromagnetic field, nuclear field, etc., based on tensors. Tensor fields manifest the boundary

nature. Physics analyses the no-boundary to boundary nature of world, which is the entropy (renewable degradation of energy) or Yin-Yang concept [73]. Yin stands for the concept of energy or light motion, degradable boundaries to confinement or polarity direction (female principle or velocity vector) and vice versa (male principle or position vector) [74].

The awareness of division of matter energy into light (jnana or information) and energy (shabda or vachana) happens because of the intervening space-time boundaries [75]. The energy going into the degradable level (lepton interaction) and light flows into lower-level form (hadron interaction) and all these are due to the space-time boundaries [76]. At the Minkowski point, we will know the arrow of time or dark cone, through which energy flows and the arrow of time or light cone genes (chromosomes) [77]. To know matter and energy, we must know massless photons, and quarks [78].

Tantra deals with the kundalini which can be compared with the modern string concept [79]. In the spring-mass system concept, there is a restoring force of balance (force of awareness) [80]. Quantum concept is a lower-level concept. The infinite vector field is Shiva-Shakti. Vedanta deals with Upanishad (mandala) which in principle is equivalent to the concept of space-time field (mandala) [81]. Continuum (jalam or point) is matter-energy concept. Field comes down to space of boundaries. This leads to atomic energy orbits of energy packets and real-time packets. All these manifest renewable degradable energies bearing entropy concept. This disorder takes place in the direction of arrow of time whereby unavailability of energy increases in the system and these space-time and matter-energy boundaries in the observation system manifest in accordance with the Vedic concept [82]. Vedic concept in essence is the renewable degradation of energy or deficit of energy or entropy concept. Deficit of energy manifest boundaries. The manifestation of atomic energy levels or space lattice effects are in the region of uncertainty or within the dark cone [83,84]. The manifestation space-time dark cone means real-time, and the observer knowingly does not carry space-time boundary of energy. The

manifestation of space-time light cone only facilitates the observer to realize the space-time of energy which occurs at the Minkowski point. Here also there is space-time boundaries. In the light cone, the time is in same direction with that of the space, which is the Euclidian space [85].

Atomic available energy decreasing is the synodic effect [86]. It is the entropy increasing effect. For balancing lattice boundary forming or entropy or unavailable energy forming unbalanced forces, restoring or resilient force must rise within the system. In the resisting or restoring inertial force, time comes to imaginary-time, which is the quantum state. Quantum is Euclidian space. Here we get to know only one direction of time, which is the sine concept. In the cosine concept, the direction of motion or time of the observer is the same [87]. Synodic effect, spinor effect, sine effect, etc. doesn't belong to Bharata. Bharata deals with field and continuum [88]. Bharata doesn't come down to the level of spin-half [89]. We are in atomic orbit level and that is why we see space-time boundary. When the atomic orbit changes to quantum, we lose our space-time and come to imaginary-time. When we are in boundary, we do not know chalanam (motion) as we are at the level atomic mass. When the lattice boundary disappears, we come to shunyata (vacuum) boundary, and we get to know the orbit. Here we know the orbit and time, matter and energy (but not the electron). Time is Vishnuttva or Narayanattva (naram or jalam or flux) [90]. The north and south separation due to spacing leads to magnetic effect and the armature rotates in it. Atomic radius concept is that of the west whereas Bharata takes Amber concept of space-time no-boundary. Geometric vector or spatial vector represents Amber [91].

Vishnuttva (Vasuki concept) is the merging of time vector and position vector. Garudattva concept refers the removal of tensors (snakes) and getting directed into the no-boundary. Vishnuttva, the first step is the realization of Ananta (serpent king) [92]. Continuum involves both adi and anadi [93]. (Adi for the atomic orbit or boundary nature and anadi stands for the infinity nature). Vedanta analyses space-time, curved space, light cone, etc. [94].

Tantra analyses the string aspect. String has restoring force and hence degree of freedom [95]. String stands for center and only with balance we can find the center. Outward tensors are balanced by the inward gravity and attains special relativistic nature. Degree of freedom will not ensure Brahman directly. Degree of freedom might be followed by manifolds (quarkonium state) [96]. Degree of freedom essentially means freedom from folds (boundaries), which relates to matrix [97]. For an ordinary observer photon is scalar. Vector nature is the part of Shivattva or Vishnuttva. Removal of tensors require Shivattva. (The belief behind the concept of Shiva-rathri is that if you please Lord Shiva on that auspicious night, Shiva might bless you in removing all tensors) [98]. To attain Shivattva, the body-chakra, Sahasrara-chakra must be awakened [99]. For the awareness of akasha-ganga (amber concept), Shivattva must be awakened.

Electric field is the flux of prapancha (universe). The flux in its higher most form might be electric or gravitational waves, which is above continuum [100]. Clouds are the field or mandala (nadi). Lightning illuminates nadis. Blood is flux (jalam). Vishnuttva that knows the above is not accessible to us, rather it is in a sleepy state within us. The mere awareness of Vishnuttva is the circulation of blood in our body. Shivattva is no way accessible to us, it is in a meditating state within us. Shivattva stands for uttarayana (winter-solstice) whereas coming down is dakshinayana (summer-solstice) and Vishuvattva is the middle level [101]. When the observer comes to the level of atomic orbit, he is tied up in boundaries. Now Vishnuttva comes to sleeping mode and is not accessible to the observer. The awareness of Shivattva is nearly impossible for the observer. Dakshinayana in some sense can be termed as Vishnuttva (coming down) and uttarayana as Shivattva (going up).

Zodiac-signs is a kind of poisonous dravya (matter) with no restoring force or realization [102]. It is njanam that doesn't require a body [103]. The flux (jalam) in the N-S poles is not accessible to us [104]. We can overcome the N-S polarities and attain shunyatha [105]. The water present in ocean lies with filth. The sunlight turns

this filth into small dust. As the nucleation process of the dust gets small, it generates particle waves. The cloud becomes vessels of the dust generated. For the observer, there is size for both particle and wave. The observer cannot access the center point where the waves and particles are generated because of the boundary nature. The observer in quantum state (quantum observer) too has kind of boundary nature. Time, orbits, vector fields and true jnana can't be accessible to the observer, because of his kind of boundary nature.

Chalanam (motion or dynamics) in observer is because of the sparsha nature (touch or interaction) due to field and continuum. There is no jiva awareness at the atomic orbit level. Jiva awareness is part of no-boundary nature or light cone orbit nature. Observer in lower level is the boundary or degradation of energy or entropy nature. Tensors start from zero-point energy [106]. Zero-point energy give rise to harmonics, where Hari (Vishnuttva) is present. The level of H<sup>+</sup> and OH<sup>-</sup> are supposed to be shadow pieces [107]. Hari will be present only at the level of 4H, level of nuclear fusion (fusion energy of the Sun) [108]. The awareness of Hari takes the observer to the special relativistic level. Chalanam is due to the activation of Hari in the observer.

As the armature rotates between the N-S poles, when the flux (jalam) linkage (sparsha) is maximum, current is generated. Similarly, Rahu and Ketu effects are due to the sparsha of Vishnu. Urja comes in quantum imaginary-time. The observer loses his body in no-boundary imaginary-time. Armature comes to know of its presence with the generation of current (I), only when there is sparsha. Erwin Schrodinger has taken this 'I' and said that his waves are not quantum waves, but real and evolving waves [109]. Quantum state has both acidic and base properties which are boundary level qualities [110]. Heisenberg has taken tensor waves which are collapsing waves (nizhal waves) [111]. Vedanta is Nigama-shastra, whereas Tantra is Agama-shastra, which deals with flux, field, and continuum [112]. The holy texts of West deals about forbidden fruits and boundaries [113]. Entropy concept comes in Vedanta, whereas Bharata takes the Amber concept. The holy text of



the West talks about waves and ripples, whereas Bharata talks about rivers (nadi), where sand represents field and water represents the flux. As per Tantra, the sun rays cause the river water to change into vapor and dusts that rise forming electric field and attains degree of freedom ultimately.

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### Glossary of Sanskrit Words:

Brahmanda	- The cosmos of totality space-time that covers brahman or absolute infinity.	Prakriti	- The Shiva-Shakti manifestations of space-time scalar fields, vector fields and eigen vector fields.
Brahman	- Ultimate mystic totality of the absolute consciousness, absolute existence, absolute bliss and beyond.	Shiva	- The creator, sustainer, and destroyer of all space-time eigen manifestations of scalar and vector fields.
Atman	- Atman manifests the cosmic inertial, dynamic, and conscious state in accordance with the energy gauging vector fields of Para-Shakti	Para-Shakti	- Force-energy fields such as jnana-shakti, iccha-shakti, kriya-shakti, etc. manifestations and beyond.
Chakras	- Balanced energy centers of scalar fields, vector fields, and beyond.	Shakti (Shakti-tattva or Raja- Rajeswari)	- The creative power of Brahman, and the dynamic power of pure consciousness. The feminine principle of cosmic force of creation. The force field of absolute existence, absolute consciousness, and absolute bliss that manifest cosmos.
Adhara-chakras	- Balanced energy centers of space-time vector fields and eigen vector fields manifested by gauge vector fields.		
Zodiac Sign (Kshara-brahman)	- Psychological based physicality frameworks of life energy subjected to inertia and entropy.	Tripura-Sundari	- The triguna concept of Shakti such as tamas (samhara), rajas (srishti), and sattva (existence).
Rashi-chakra (Akshara-brahman)	- Balanced energy transformation center based in intelligence and consciousness.	Shiva-Shakti	- The cosmic union that transcends everything and unifies everything. Shakti is either space or consciousness and Shiva too the same. If Shiva manifests as consciousness, Shakti manifest as space and vice-versa. Shiva and Shakti together form Brahman or Para-Shakti or Para-brahman, which is beyond all relativities.
Sri-chakra	- Absolute existential reality which manifests all space-time packets of life forces and energy.		
Kamakala-chakras	- The manifested cosmos of inertial, relativistic and all higher dimensions of space-time scalar fields, vector fields, eigen vector fields, and energy-field dimensions.		
Vishnu-tattva (Narayana-tattva)	- Manifested and unmanifested cosmos brought by the action of both force fields (Sri-chakra) and energy fields (Kamakala-chakras).	Kali	- The dark force, the gauge vector field that controls all manifestations of space-time scalar fields and vector fields and eigen vector fields.
Vishnu-maya	- All Physicality aspects of classical and quantum manifestations.	Shiva-tattva	- The manifesting principle of matter-energy fields (scalar fields), space-time vector fields, and eigen vector fields, which independently manifests the cosmos of
Purusha	- Four-dimensional space-time of both boundary and no-boundary manifestations.		

	absolute existence, absolute consciousness, and absolute bliss.		control or understanding. They deal with the physical and spiritual sides of human life, causing the higher and lower ranges of human activity beyond the normal scope.
Jada-Shiva	- The observer of entropy-based inertial space-time manifestations.		
Jiva-shiva	- The observer of vector field space-time manifestations and beyond.	Adha-prana	- Eigen values that manifest the space-time boundaries, scalar field space-time manifestations, etc.
Jiva-prana	- The observer packeted with space-time life energy. Prana-chakra is the inertial and entropy-based matter in the real-time.	Urdha-prana	- Eigen values that manifest the space-time no-boundaries, vector field, and space-time manifestations.
Dravya & urja concept	- The matter-energy concept of jada-dravya (matter) and jada-urja (energy). Jada-dravya is the inertial and entropy-based boundary-oriented matter (curved space matter).	Om	- The primal vibration, the word of creation and destruction. The balancing act of space-time vector fields and eigen vector fields by gauge vector fields such as force-energy fields.
Aham	- Indriya based real-time states of self.	Sat-chit-ananda	- Realization of absolute existence, absolute consciousness, and absolute bliss.
Ahamkara	- The self-arrogating principle 'I', 'I am'-ness. All physicality manifestations based in inertia and entropy.	Para-vidya	- The supreme principle which is the basis of Sri-chakra and Kamakala-chakras.
Indriyas	- Instruments of mind, organs of action and perception. (Five organs of action - eye, skin, nose, tongue, and ear. Five organs of perception - hand movement, leg movement, vocal cord, excreta organs, and organs of reproduction)	Bodha-shakti	- Bodha is consciousness. Para-Shakti is bodha-shakti. Shiva-Shakti is both space and consciousness.
Karma	- The cause-and-effect law of all actions. The accumulated effect of deeds and actions in this life, past and future lives. Dissolution of uncertainty manifestations into nothingness.	Ichha-shakti	- Ichha-shakti is the force field that manifests consciousness.
		Kriya-shakti	- Kriya is the act that manifests the cosmos of interacting force-energy fields. No-uncertainty action is kriya and uncertainty action is karma.
Rahu-Ketu effect	- As per Vedic astrology, Rahu and Ketu (the north and south nodes of the Moon, Umbra-Penumbra concepts) represent powerful psychic forces beyond our personal	Jnana-shakti	- The cosmic wisdom of Brahman attained through kundalini awakening or enlightenment.
		Maha-maya	- Maha-maya or Maha-bindu means the cosmic consciousness or Shakti that determines the manifestation

	of cosmos from the cosmic totality energy zero. It manifests as the three basic contact forces as marsha-shakti, vimarsha-shakti, and kundalini-shakti.		
Mandalas and Nadis	- Mandalas are channels of subtle energies and nadis are the energy channels in the body.	Uttarayana & Dakshinayana	- Uttarayana is a period of harvest, the Sun runs in relation to planet Earth will shift from the southern run to the northern run - from Dakshinayana to Uttarayana. In terms of celestial arrangement, the sun will shift to the north slowly (winter-solstice). People who have been spiritually aware have always identified this transition as a possibility for human consciousness to blossom. This is the period of receptivity, of grace and enlightenment, attainment of the ultimate. Uttarayana is for enlightenment. During the southern run, what is below the anahata can be purified very easily. During the northern run, what is above the anahata can be worked much more easily. That is why in terms of sadhana, Dakshinayana is for purification.
Shunyata	- It is the samadhi or zero. Samadhi is the state of balancing forces. Vedantic samadhi is manifestation of shunya or zero and Tantric samadhi is manifestation of Shakti. At the zero state, there is no separation between the observer, observed and the process of observation. This means that there is no separation of the observer from the infinity, the observer becomes infinity itself, and the cosmos goes into nothingness or become one with the maha-shunyata.		
Hari	- Another name of Vishnu, who has the power to effect manifestation.	Yin-Yang concept	- Chinese philosophical concept that describes interconnected opposite forces. In Chinese cosmology, the universe creates itself out of primary chaos of material energy, organized into the cycles of Yin and Yang and formed into objects and lives. Yin is the receptive and Yang the active principle, seen in all forms of change and difference.
Shiva-rathri	- As per Hindu mythology, on the auspicious night of Shiva-rathri, Lord Shiva performs the heavenly dance of creation, preservation, and destruction, known as Shiva-Tandava. As per modern science, it is the elimination of Higg's boson effect through quantum interactions.		
Surya & Chandra concepts	- Surya is the basic jada-dravya aspect of cosmos, and Chandra is the basic jiva-dravya aspect of the cosmos. Surya and Chandra are basically time concepts. Sushumna concept (vacuum concept) involves both surya-nadi and chandra-nadi.	Vedanta	- Vedas are the holy scripts of ancient Bharata for self-liberation. Veda or Vedanta leads to Advaita-Vedanta-Brahman or Para-brahman or consciousness. Advaita-vedanta-brahman is the state

of unity and oneness. Vedanta simply means nirvana or shunya or samadhi or zero. Advaita-vedanta-brahman is the Sankhya-tantra way of manifesting consciousness. Brahman means consciousness and space put together.

Agama-  
shastras

- The most ancient Bharatiya-shastras of Para-Shakti realization. It deals with the basic Shakti adhara-chakras, basic prana-chakras, and Shiva adhara-chakras (Kamakala-chakras).

Nigama-  
shastras  
Tantra-  
shastra

- Vedas are nigama shastras.
- A well-known system of philosophy of ancient Bharata for self-liberation. Tantra leads to Para-Shakti or Para-brahman. Shiva-Shakti in Sankhya-tantra is Brahman. Brahman stands as supreme Shiva-Shakti. Since time is way and direction for carrying space or energy, the definition of time brings into existence the consciousness or Brahman. If energy manifests, then the time will also manifest. Force-energy based action of the cosmos is in accordance with Agama tantra shastras.