

**To The Hon. Prime Minister. Sri Narendra Modi: Swami Vivekananda extolled the excellence of Sankhya . It is the ideal axiomatic scientific model of governance supported by resource conservation through predictive planning to attain Vasudaiva Kutumbhakam.**

**THE SANKHYAN PATH TO INTEGRATED GLOBAL ENVIRONMENTAL HARMONY**

**Visit [www.kapillavastu.com](http://www.kapillavastu.com) for a detailed scientific background**

**G Srinivasan:Kotagiri, Email: [gsvasktg@gmail.com](mailto:gsvasktg@gmail.com) Mob: 9003708817**

Swami Vivekananda lectured around the world extensively on Sankhya as the perfect science that embodied the principle of Vedanta as shown below in an excerpt of his speech:

*"There is no philosophy in the world that is not indebted to Kapila. The Sankhya philosophy of Kapila was the first rational system that the world ever saw. Every metaphysician in the world must pay homage to him. This wonderful man, the most ancient of philosophers, is mentioned even in the Shruti: "O Lord, Thou who produced the sage Kapila in the Beginning." How wonderful his perceptions were, and if there is any proof required of the extraordinary power of the perception of Swami Yogis, such men are the proof.*

**GOVERNMENT PLANNING FORECAST FROM SANKHYAN SCIENTIFIC FINDINGS**

<b>1</b>	Perpetual tidal lift allows unlimited hydrogen production as a green fuel at zero operational cost.
<b>2</b>	Enabling space craft development by levitation principles based on Sankhyan algorithm to substitute road, rail and marine transport.
<b>3</b>	Maximize Agricultural practices by identifying micro gravitational synchronization through stellar indicators.
<b>4</b>	Advanced disaster management prediction through forecasting techniques based on planetary conjunctions.
<b>5</b>	Development of magnetic gravitational convertors at maximum efficiency.
<b>6</b>	Creating planned harmony of flora and fauna to sustain Ayurvedic herbs with food crops in a synergistic loop.
<b>7</b>	Resource recycling through predictive planning will establish the optimum form of governance.
<b>8</b>	Skill development based on identification of inherent genetic traits that will enable a motivated workforce.
<b>9</b>	Introducing Siddhi as a means to maximize the self potential of the individual.
<b>10</b>	Handling local rainfall inadequacies through mechanized Yagna process that can fulfill agricultural demands.

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**Brief on Scientific excellence from the only axiomatic numerical  
theory of Sankhya derived by  
Kapillamuni**

**WHAT IS SANKHYA?**

Sankhya Karika derived by Kapillamuni, formed the foundation of the Bhagavadgita. It is the most outstanding scientific theory of manifestation derived through axiomatic numerical principles, as a complete and precise theoretical framework, unchangeable for all times. Kapillamuni had composed it in coded numerical form where all numerical values were presented as powers of index to the base 10 in an austere and logical composition.

Starting with the very first title Sankhya, Kapillamuni had coded it most powerfully as a numerical acronym to form the mnemonic that contained the entire numerical solution to the phenomena of complete manifestation in the Universe, following the principles codified by Saunakamuni in the Pratisakhya, during the Punarvasu period, 32000 years back, as follows:

The word Sankhya is Sa = 5 and Kha = 2; where the mnemonic 52 is the very epitome of austerity and brevity.

Taking only one level as an example the index ratio 52 in the coherent Thama state represents the axiomatically derived mass of Universe  $MU = 7.82 \times 10^{+52}$ . Next the index  $5 + 2 = 7$  in the Sathvic state represented the expansive state harmonic axiomatically derived  $C = 2.965 \times 10^{+8}$ . Further the ratio of the two index values  $52 / 7 = 7.42857$  as the Rajasic state of eternal dynamism. Pursuing it further ratio 7.42857 in the Swabhava state when changed by  $2/7$  as  $7.42857 \cdot 0.285714 = 7.142857$  as the Abhava state in Kaivalya. Though there are many levels of identities the table below is just an example.

SANKHYA as SA = 5 and KHA = 2 (mnemonic)		
SWABHAVA	ABHAVA	VIKARO
THAMA (Coherent)	RAJA (Resonant)	SATHVA (Harmonics)
52 Brahmanda	$1+1 = 2$	$1 - 52 = - 51$ Moolaprakriti
Mass of Universe $7.82 \times 10^{+52}$		Moolaprakriti mass $1.344 \times 10^{-51}$

The above sequence from the very title covers the entire process of manifestation and forms the landmark derivation based on axiomatic logic that is complete, precise and eternal as shown below.

As a result, its most outstanding internal proof that Sankhya is indeed a perfect theory lies in its ability to derive the complete range of stable masses from fundamental axioms. Starting with the smallest mass of the Moolaprakriti at  $10^{-51}$ , it ranges in an extraordinarily smooth flow of harmonic changes to the maximum mass of the Brahmanda or the observable Universe of  $10^{+52}$  kgs (Note 52) at an observer's dimensional standard of 1 meter per second, while containing a spectrum of intermediate masses as the Purusha state in kaivalya, Mahad as Planck mass, Prakriithi as the Neutron, Nucleon, Proton spectrum, Vikriithi as the leptonic triad of Electrons, Vrithi Vikaro as Neutrino photon spectrum, as stable resonant and harmonic states matching values in Physics to the greatest accuracy. Even the total number of 68 Sutras is the acme of brevity for factorial 68 permutation and combinations lead to  $2.48 \times 10^{+96}$  as the resonant state of coherent density forming the singularity Physics called the Planck Density. This in itself is enough to place Sankhya on the pedestal of excellence. See mass.pdf on website

The very foundation of space has been axiomatically defined and derived to 50 decimal place accuracy and covers all aspects of Physics and Cosmology over every range of manifestation in just 68 Sutras.

([http://www.kapillavastu.com/uploads/SANKHYA\\_FINAL.pdf](http://www.kapillavastu.com/uploads/SANKHYA_FINAL.pdf)) Since it is an axiomatic derivation it cannot be changed and is valid eternally and therefore it forms the numerically derived version of Vedanta in thought, word and deed and no less a person than Swami Vivekananda had referred to this aspect with deepest convictions.

Sanskrit Sutras are strictly numerical formulations and is to be decoded by the relevant Pratisakhya, which unfortunately has NEVER seems to have been done, with the result that the exotic Vedic scientific treasures have been misunderstood and ignored. Its axiomatic mathematical principles are so advanced that the current mathematical procedures in science are not capable of analysing simultaneous interactions that form the core of the three Guna Swabhava principles it is built on. The first Sutra defines the Abhava state of resonant balance in the perpetual dynamic state.

दुःख ऽय अभिघाताज् जि ऽसा त् अभिघातके हेतो सा अपाथा ऽचे ऽन ऐका ऽत अ ऽय ऽत अतो अभावात् ॥ १०॥
Investigating the triad of interactive stresses shows that such interactive modes of stresses exist but it would not have been detectable, had it not been for the existence of the coherent- resonant - harmonic - unmanifest (state of existence.)

Summing it up simply the Thama or coherent states are the instantaneous sum of all higher orders of resonant & harmonic states , Raja the first order of resonance that bonds while Sathva is the harmonics as prime number states that radiates as it cannot resonate or harmonise.. Uniquely, Gravity is explained here as the transmigration of numerically higher level interactive states as a gravitating acceleration towards the coherent state as it is centered and the interactive count reduces to the unitary level of a singularity in every cycle. The equation of balance or Abhava is perpetually maintained except during the changing interval of space and time and as the balance is maintained in each cycle all changes are always one more or one less per cycle.

Coherent Potential THAMA	Resonant Ratio RAJA	Harmonic Expansion SATHVA	Balance
Tha = 6 ma = 5	Ra = 2 Ja = 8	Sa = 5 tha = 6	
6 + 5 = 11	2 + 8 = 10 = 5 + 5	5 + 6 = 11	+1-1=0 Abhava
Thama	Exchange	Expansion	
11 - 1 = 10	2 + ( 8 -1) =9 & (8+1) +2 =11	10 + 1 = 11	-1+1=0 Swabhava

The proof that Sankhya is indeed the source of all Vedic compositions is in the Pranava or Gayatri mantra. Decoding only the very first mnemonic OM, according Saunaka's Pratisakhya rules O is 9 and Ma is 5 and reducing because O is before so  $1 / 5^9 = 1 / 1953125$  and in Sankhya the moolaprakriti or point of collision or Bindu is  $Tc=151.886$  and the Matra or period of cycle is  $C = 2965E+8$  and  $C / .Tc = OM$  as shown below:

$C = 2.96576E+8$	$Tc = 151.886$	$OM \& O = 5 \ M = 9$	$5^9 = 1953125$	$C/Tc=1953125$
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The answer with that sequence of numerical ratios above may seem unrelated and even a flippant statement in a discussion as profound as Global environmental harmony, but the climate change problem is to be understood in several ways that connect the mechanism in space which is at the base of it. As will be shown below it is the most extraordinary and precise set of facts ever created by any intellectual at any period of time. Vedic science through the axiomatic derivation in Sankhya has given the equivalent potential mass of the Universe as  $7.8 E52$  kgs (or 10 raised to 52) and similarly, the equivalent potential mass of fundament quantum as 7 (10 raised to 7). All the above values derived through axiomatic algorithms can be read in full detail on [www.kapillavastu.com](http://www.kapillavastu.com) website. The reason for describing Sankhya in that extraordinarily unique vocal mode of presenting scientific formulations in mnemonic form, where each Sanskrit alphabetical letter represented numerical value of the logarithmic index to the cyclic base of

10 interactive counts, is the epitome of intellectual mastery of Vedic science by Kapillamuni and his contemporaries...

### **Historical background in brief.**

While Copernicus, Tycho Brahe, Kepler and a host of others were arguing whether the Sun went around the Earth or vice versa, our Vedic forefathers had created a table, the Panchanga or the 5 orders of resonance at  $12 \times 5 = 60$  years and forecast even the eclipse years ahead of the event. In that background the Vedas have roused man's curiosity around the globe at one stage or another. Just to know that so many intellectuals dedicated themselves to unraveling its meaning, is a tribute in itself, even though they failed to agree as to what the ancient creations really meant. Are the Vedas an esoteric creation and if so who composed it in ancient times? Some modern intellectuals attempting the translations misjudged its scientific content for one thing. An erroneous 6000-year guesstimate of its origin prevented researchers from suspecting a possible difference in meaning of words from an older form of Sanskrit.

See ([http://www.kapillavastu.com/uploads/AGE\\_OF\\_VEDA2S.pdf](http://www.kapillavastu.com/uploads/AGE_OF_VEDA2S.pdf)) The verses contained six types of controls as rhyme rhythm, tone, tenor, guttural emphasis and onomatopoeic meaning. The Pratisakhya, also in a similar metric form as an adjunct to each Veda, aided it. The fact that the original authors saw the need for a supplement to aid comprehension provided an important clue to Vedic profundness. Few had that patience, except perhaps Swami Vivekananda, Sri Aurobindo, Lokmanya Tilak and Jagadguru Bharathi Krishna Thirtha among others. They took the difficult route of going through the original versions. The Lokmanya and the Jagadguru investigated, hypothesised and had the courage to write about it. . Was it a coincidence that the very first verse in the Rigveda and the Atharvaveda defined the very first fundamental principle in electromagnetic and quantum theory? These experiences led to decoding ancient man's greatest and ultimate scientific achievement in the Vedas. That process found the ancient man turned out to be the teacher for mankind

. Please see URL of research conducted under NIOT, India. URL:

<https://www.youtube.com/watch?v=sz29ypaaiX8>

The above URL is living proof of the explanation below. Hence human wisdom is necessary to align our outlook with that of nature. The Earth goes through a changing cycle of about 25600 years, due to the precession of the Equinoxes. The glacial melt down and the formation of the ice age is a cycle that wise humans will first reckon with. That part of that cycle is extremely important and the first step is to benchmark our present period to that cycle.

The Vedic recording of its history started with stellar zero longitude (ZL) position called Punarvasu (Constellation Orion) and the current period is 33000 years later in the ZL position called Aswini in (Aries constellation). Punarvasu to Punarvasu would have been 25600 years due the precession of the Equinoxes. But unfortunately after 23000 years from ZL Punarvasu in ZL Magha (constellation Leo) the catastrophic glacial melt due to Galactic nodal crossing, created the global inundation of Biblical fame. (see World Affairs.Pdf). We have passed about 10000 years from ZL Magha to ZL Aswini or Aries and are heading towards the colder period in ZL Abhijit after a half cycle period of 13000 yrs. We are not heading towards a natural warming cycle but on the contrary we are experiencing the results of pseudo warming phenomena, normally called the 4 o'clock effect in atmospheric temperature effect.

See the confirmation URL from NASA released a few days back.

[http://earthobservatory.nasa.gov/Features/GISSTemperature/giss\\_temperature2.php](http://earthobservatory.nasa.gov/Features/GISSTemperature/giss_temperature2.php)

First question we must ask ourselves is "why is there a warming and cooling cycle of 25650 years?" It is due to the change in the critical space matter density because of changes in the gravitational field density in one cycle of precession. In ZL Abhijit the earth's ZL is exactly in line with the Milky Way Galactic centre. The crossing of the ecliptic is a period of intense stress for the direction of the centrifugal force due to spin changes direction suddenly. The eclipse experiment on the website gives the rational and pictorial evidence. The gravity field constant changes to become denser and therefore the effect are to lower the enthalpy of space in that region. Like steam compressed loses latent heat and water enthalpy changes with a corresponding change in lowering the sensible heat and cooling or freezing takes place on earth In ZL Magha the opposite happens and the warming creates the raising of sensible heat with the result

glacial melt down occurs.

The earth has still about 3000 to 4000 years to be in ZL Abhijit position when the polar ice will increase. Therefore the current "global warming" is due to local causes. But for it to be so intense we have to know the reason for such a change in the enthalpy of the space around us. Vedic science has had the perspicacity to identify and benchmark such events that could cause collateral damage of historic orders. Further it derived an axiomatic theory that predicted the process of manifestation in Sankhya with extreme numerical accuracy so man can plan to go with nature.

The Sankhya theory proves that all life is due to the permanent dynamism in space. The stable forms of all manifest phenomena are holograms represented by the aura spectrum of 7 levels, kept together in simultaneous state due to the resonance built up by the perpetual dynamism in space. Hence any act of decimating life forces releases the resonant energy which increases the enthalpy in space. Trees, Plants, animals, birds, fish and all such genetic matter with the most powerful spectrum of auras around them, if decimated suddenly, release enormous latent energy that raises the enthalpy of the environment. The example in reverse of allowing water to turn to vapor is a way to understand it but mathematically it is correct. Daily millions of tons of animals, birds and fish are decimated for food. Its reaction is the pseudo global warming added to the 4 o'clock effect we observe. Man must change to creating an agrarian based economy that is free, self organizing and self sustaining only because the manifestation process is perpetually triggered by the eternal dynamism operating in space as the three Guna PHO state and that will not create the explosive level that we experience now. Before the rational of installing a predictive planning system that will lead to Global environmental harmony, we need to understand the Sankhyan axiomatic logic on which dynamic manifestation is founded.

### **Concept of the Panchabhoothas from Sutra 22 in Sankhya.**

Sankhya Sutra 22 given below forms the mathematical foundation for the concept of Pancha Bhoothas forming the complete global environment.

- ँकृतेर् महं अत अतो अहंकारः तामा गणस्त्र षोडशकः | तामा अपि षोडशक अत्प्रचयः पाचभूतानि ||  
२२ ||

*prakrither maham asth atho ahankārah tasmād ganas cha shodaśakah tasmād api shodaśak  
ath pañcabhya pañcabhūtāni*

*Oscillatory intense force expanding continuously active self acting in this way calculated and sixteenth  
in this way also sixteen binds fifth power 5 levels of manifestation.*

*Explanation: By the action of the primary force in the self sustaining oscillatory state an intense  
expanding force is radiated continuously at a calculated value that is at the sixteenth power of the primary  
value and in a progressive series, it is incremented through sixteen levels that binds or condenses  
through five orders into five sets of manifested phenomenon.*

*Note: This extraordinary theorem that gives the axiomatic reason why there are five levels of phenomenal  
states as solid, freezing, liquid, evaporation and gas phases. The intense acceleration of the self  
sustained oscillatory state expands continuously and its value can be only calculated as it is in the  
simultaneous oscillatory state and the sixteen orders condenses or binds into five levels of manifested  
phenomena as each level needs 3 orders to maintain its independent volumetric state as a distinct entity.*

Hence mathematically the thermodynamic states of the solid, fusion transition, liquid , vapor transition and gaseous states are identified precisely through axiomatic methods so accurately that the absolute temperature or the first change in volume per change in the cyclic interactive rate as energy is just  $343$  or  $7^3$ . The detection of this state in the Abhavath state can never be done through any physical experiment as it disturbs the coherent state at  $10^{35}$  Newton of pressure in the Thama state of space. But the first

change in resonance ratio of 2 gives radial change of  $2^{1/3}=1.259$  and 343 divided by 1.259 plus the correction for the act of detection is given below:

$$\frac{343}{k} + \frac{7^2}{7^2 - 1} = 273.260114$$

Where k = cube root of 2 is 1.259 and the above value derived by axioms alone should make every scientist sit up and take notice as to why the absolute temperature in space is 273.26. This is one more cardinal proof that Sankhya is a perfect theory

But the Pancha Boothas are the 5 phases of the dynamic three Gunas forming the next level of manifestation within the Brahmanda or space commonly named Akasha, which is covered in the third Sutra of Sankhya and given below because modern humanity has completely ignored it, under the gross misapprehension that space is empty or a void as hypothesised in Physics and Cosmology today. Sutra 3 explains that:

### The axiomatic three dimensional wave fundamentals of the substratum Sutra 3...

मूलं ऽपि त्रिं अविकृतिरु महद अद्याः ऽपि ति विपु तयः सप्त | षोडश कस्त्वुविकारो न ऽपि त्रिं नि विकृतिः पुषः  
॥३॥

mūla prakruthir avikruthir mahad adyāh prakruthi vikrutaya: saptha shodaśa kas tu vikāro na prakrutir ni vikrutir purusha:

Root oscillatory coherent & synchronized intense primary fundamental oscillatory rate harmonics seven sixteenth approaching reference to radiation neither basic oscillatory nor harmonics nuclear core

Explanation: Fundamental or root resonant core oscillatory state is synchronised, coherent and stable; the first interactive oscillatory state is of maximum intensity; then there are seven levels of the harmonic oscillatory interactive stages followed by an expanding radiation above a sixteenth order of the fundamental value; the nuclear state is neither oscillatory nor harmonically interactive.

*Notes: The most magnificent theorem in Vedic science that defines and identifies the critical states that create the spectrum of manifest phenomena through an axiomatic interactive formulation in space. The unique process of intellectual verification of the hidden spectrum in the coherent state by axioms has not been attempted in Physics yet.*

This sequence is the most magnificent part of the fundamental state of the substratum of space defined in terms of the three oscillatory or Guna states of interaction that creates the holographic forms in space which is eternally dynamic. Purusha Pu=1 Ru=2 Sha = 7 totaling ten, the eternal interactive cycle that Kapillamuni coded all ratios as index to base 10 or the PURUSHA singularity. The Mahad as the greatest emerging mass (Planck mass) leading to the Prakriti as the emergent PM mass of the nuclear Proton / Neutron combo balanced by the Vikriti state of the leptons as Electron triplets, maintain the balance as Abhava. But changes to Swabhava releasing the Vrittis in 7 orders of level changes forming harmonic of undetectable levels, as the eternal auras surrounding every independent state in Kaivalya. The most exotic aspect, thanks to Kapillmuni, all these masses are derived axiomatically in a self similar & scale invariant mode, so they are eternally the same at every level of phenomena.

See ([http://www.kapillavastu.com/uploads/Mass\\_All\\_Particles.pdf](http://www.kapillavastu.com/uploads/Mass_All_Particles.pdf))

It means that the Proton or the Earth, Sun or Galaxy can be defined by the same numerical algorithm for it is self similar and scale invariant. This is the wonder of wonders from an axiomatic derivation and has been on the Kapillavastu website for the last 15 years and open to all visitors.

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## WHAT IS THE SPECTRUM OF AURA SURROUNDING ALL THAMASIC STATES AND WHY HAS MAN BEEN IGNORANT OF THIS MOST RESPLENDANT RADIATIVE STATE OF TOTAL INTELLIGENCE?

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Sutras 24 and 38 define the Vritti or neutrino spectrum similar to Sutra 22 (see website Sankhya final. Pdf for details),

In it the Thanmatras in the expansive spectrum of 16 order levels compress into 5 order levels around the coherent Thamasic states while leaving 11 orders as the radiant form of interactive states. It is the equivalent of  $C^2 = E/Mass$ . But in real terms it is the undetectable local oscillatory gravitational potential in the Thamasic state, surrounding every entity in the detectable Swabhava state, relative to the surrounding undetectable potential in the Abhavath state. Therefore every change in the value of the gravitational acceleration due to any or all causes affects the aura envelope to bring about a balance. All sentient entities respond to these variations through the pineal gland, called the eye of wisdom, which forms the receptor that "feels" the changes in the Aura field as a direct perception or experience. It is in the 3.57 cps oscillatory state and even medically identified as the Theta brain wave frequency in the spectrum of Beta, Alfa and Delta states. The reality of the aura is on <http://www.kapillavastu.com/Index.php?r=site/aura>. Therefore there is concrete mathematical evidence that all stellar bodies continuously interact and affect the aura or the local gravity field in exactly the same way as the stellar and planetary field affects tides. Since there is only one axiomatic law of dynamic interactive states all gravity value changes must affect the Aura too.

The foregoing para leads to a profound derivation with far reaching conclusions. The aura is the protective gravity field around every entity (Purusha state) including all sentient life, at the next denser level, in the kaivalya state. Hence the aura envelope must follow the same gravitation changes in the local field. The aura field must expand due to a lowered acceleration rate (Increasing genetic cell volume) and contract when it increases (smaller genetic cells). It therefore controls the Thama-Sathva state volume and the variation will specifically effect all genetic molecular ensembles which points to a controlling factor responsible for gravity acceleration changing events.

(see <http://www.kapillavastu.com/uploads/PHO-GENETICS.pdf>). The immediate examples are the orbital changes of the Sun and Moon which effect this field but for only short periods like the tides. But there is a long term reason that shows the emergence of sentient life on any planet etc. depends on an extremely critical and sensitive parameter, the orbital radius of the planet, for the state of that gravity field is the very reason for all sentient existence on Earth. The mathematical logic will be explained in simple terms and is vital that humanity knows how important it is to protect the environment at all costs as otherwise mankind will unwittingly self-destruct. While the exact derivation is in **abstreview pdf** <http://www.kapillavastu.com/uploads/SankhyaAbstract.pdf> on website, the simple but profound derivation will be shown here.

- The axiomatically calculated oscillatory rate of a light or gravitational wave in the balanced or Abhava state is  $C_a = 296575967$  cycles per axiomatic cycle (m/second) but the actual measured value by Michelson Morley etc. is  $C_m = 299792458$  showing a ratio difference of  $C_m / C_a = 1.01084$  or the difference is 01084. As  $C_m/C_a$  is a simultaneous state ratio the  $\log(C_m/C_d) = .00468$  which is exactly equal to the ratio of Solar radius  $R_s 6.9751838E+8$  / Earth Orbit radius  $RO 1.48878313E+11$ . Added to this extremely precise value known in the Sankhya period too, is another extremely precise value of the Prakriti or PM (in the Abhava state between Neutron and Proton) oscillatory time- interval value as  $P_t = .001081$  in cyclic seconds. The ratio of  $C_m/C_d -1 = .01084 / .001081 = 10$  which is also the axiomatic cycle of the Purusha state. The most extraordinary state of balance in Kaivalya of the Purusha state is achieved ONLY at the  $RS / RO$  ratio and therefore the monumental conclusion is that the spectrum of sentient life can only exist at this orbital ratio. If the Purusha state is under any stress the next level of Kaivalya defined in Sutra 68 can never happen as  $10^{18}$  oscillatory levels must be able to resonate at the median 3.57 cycles to become a stable entity. Hence as derived in Abstreview pdf the equivalent  $C_m$  oscillatory cyclic rate is more on Mercury is 1.0284  $C_a$ , on Venus is 1.015  $C_a$  & less on Mars

1.00707 Ca & Jupiter 1.00206 Ca. From Saturn to Pluto it is even less. These values must be checked experimentally on those planets for the Michelson value confirms the theoretical prediction in Sankhya.

CRITICAL Parameter for Life on EARTH(Earth vs Solar Orbital radius matches the identified sustainable resonance condition)			
Gravitational wave in the balanced or Abhava Ca = 296575967 per cycle second	Measured value on earth Cm = 299792458 Difference ratio Cm/Ca=1.01084	Difference ratio log (Cm/Ca) 1-(Cm/Ca) = .0108 log(.0108) = .00468	Prakriti or PM ( the Abhava state between Neutron and Proton) orbital time value Pt= .001081 in cyclic seconds.
Solar radius RS 6.9751838E+8	Earth orbit radius RO 1.48878313E+11	RS/RO= .00468	(1-(Cm/Ca))/Pt=.01084 / .001081 = 10 the axiomatic cycle of 10 the Purusha state.

These values are on website and a request was made to ISRO to check on Mars but as is usual I got a reply that it was sent to the meteorology department sending the strong message we don't care.

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### SUMMARY OF SANKHYA BACKGROUND FACTORS.

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From the 68 Sankhya Sutras, only Sutra 3 and 22 have been quoted here, as these two are directly relevant to our goal of attaining global environmental harmony, though the rest of the 66 Sutras lead to understanding Universal dynamism as a state absolute harmony leading to the magnificent spectrum of manifestation we are a part of. The axiomatic derivation in Sankhya establishes that any manifest phenomena must be of a holographic nature on a substratum that is real, identifiable and definable numerically as perpetual dynamic state.. It cannot be otherwise like ice is a Tamasic hologram in Kaivalya on water.. As a result perpetual dynamism sweeps through every aspect of manifestation in two modes of sensory observation in the Swabhava or three Guna interactive state and direct intellectual perception through the Abhava or coherent state of existence only because both in a dynamic state. The huge spectrum of paranormal phenomena recorded but ignored is nothing but the direct perception of all coherent state interactions by sentient life. It is not detectable by sensory perception because it is just below the Vikaro or Planck's quantum level of Photons that become detectable only because 7 Vrithis accelerate in Vikharo state of luminosity. Hence the cardinal principle is that all human development processes must include the vital Aura spectrum of intelligent information to create an integrated environmental harmony.

The axiomatic principles of self similarity and scale invariance, creates certainty of events that establishes predestination as the base for all manifestation processes. An axiomatic mathematical base confirms the Vedic principle of Vedantha as the path of certainty leading to Karma as the predestined course of action, driven by the dual potential of the simultaneous Abhava and the sequential Swabhava modes as Advaita , all arising from the unitary state of Aikantha in Kaivalya.

Adopting & following the principles of Sankhyan scientific methods, derived with unimaginable precision, will certainly lead to creating the much needed state of global harmony or Vasudaiva Kuthumbakam.

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### TEN POINT PLAN IN BRIEF FOR CREATING THE INTEGRATED GLOBAL ENVIRONMENTAL HARMONY

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## 1. Space:

### a) Power base:

The fundamental substratum in the balanced and resonant state of Abhava forms the eternally dynamic power house of energy, defined precisely through the single Guna algorithm, which can be used like any other continuum as we do with air or water for these are also "elemental" at a higher density.. The continuum forming a holographic plenum of elementary quanta, the Purusha state, is at an interactive flux density or dynamic pressure of  $3.86E+35$  cycles /cycle, that have been identified by Nobel Laureate Chandrashekar and .Russian scientist Sakharov as the metric elasticity of space. Future spacecraft designed on principles derived through using the Sankhyan algorithms, can hover & glide like a helicopter. The technological advantages are numerous and obvious. Skillful and objective use of the perpetually dynamic space is the means to technological excellence in today's world. (see Sankhya.PPT slide on web to understand the Sankhyan gravitational law of resonance)).

### b) Unified field:

The future vision based on Sankhyan understanding of the fundamental field in space as not being a vacuum or a void, mode of travel and transportation can change radically to modify the entire infrastructure scenario. Both the Rigveda first verse and Sankhya Sutra 37, derive the principle of triggering the field of space instantly or within the time interval of a single Guna or PHO cyclic interval, which will provide a reaction that can be used in required ways. The enigmatic Vimanika sastra verses too identify similar methods but cannot be decoded by the known methods. Briefly very heavy fluids like mercury when spun at above 532 r p s within a container, creates thrust by altering the Prakriti Vikriti or the Proton / Electron oscillatory interval of .00108 of a second in the Abhava state, shown above . It is the well known gyroscopic effect that creates thrust in solids because rigid bodies react slowly whereas heavy fluids react instantly without breaking up at that spin rate .and create thrust externally.. The current method of attaining thrust in a rocket by mass ejection acts on the same principle but heavy atom-spin fields act vectorially like on helicopter rotors. Experiments should be conducted to establish norms, for only the mathematical principles can be derived. Transport through levitation requires no terrestrial infrastructure as speed of travel is relatively not a limitation and using hydrogen as fuel sets no limits and will encourage the spread of population into "villages" rather than cities.

### c). Conversion of Gravity field:

The permanent gravitational potential in space can be interactively split into potential / kinetic energy by rotating strong magnets to generate electromagnetic power perpetually at maximum efficiency. The principle is the same as in the previous case where high oscillatory rate interactions create thrust in the atomic or molecular level without additional fuels but trading of coherent state time with harmonic intervals. Such generators can provide localized power for domestic usage. A working model of a gravity convertor has been developed to confirm the principle and demonstrate the effectiveness of Sankhyan logic conclusively. The inductive reactions in conventional electrical technology is due to the same Sankhyan principle where both coherent intervals as magnetic states releases the harmonic states as electric an current, creating a time changing ratio of 3.57 times as the inherent or Swabhava or self similar difference between potential and kinetic energy states. Hence AC generation systems can reverse that loss through pulsed DC systems. Many more inventions will emerge once this source of hidden potential is understood theoretically.

## 2. Atmosphere:

### a) Second elemental field of molecules:

The environment must be recognized as the seven levels of the Thanmatra harmonic Vrithi states forming an integrated and dynamic framework that forms an interface between the atmosphere and Space in the resonant Abhava state and forms the very source of all energy and information from the external world. The Sankhyan principle proves that the Prakrithi Vikrithi interaction progressively increase oscillatory rate density to create envelopes at regular harmonic intervals (identified as ionization layers) at increasing resonant rates to form the smaller volume of atmospheric medium of at  $10^5$  Newtons on the surface of

the Earth. The most important factor that Sankhyan logic emphasis is, that the entire envelope is a resonant cum harmonic layer in harmony at discrete levels and this factor must be used explicitly in our predictive planning process. Present weather forecast are only hours ahead whereas the seeds of change have been sown months ahead to change the Thanmatra state of the local micro gravity field.

b) Condensation

The formation of clouds from water vapor, ultimately leading to condensation as raindrops, is controllable, as the yagna process of Vedic times showed. Resonant harmonic states lead to a change in temperature only at the Thamasic levels but creating the appropriate resonant/harmonic combinations by artificial means will create the conditions for rain locally. While cloud seeding does, it is not a controllable process whereas electronically tunable balloons that transmit the correct frequency and pulse forms can create local rainfall after the required dwell period. Experimental setups should help our farmers out especially if it is tied up with Solar / Lunar tidal timings for the atmospheric aura envelope rise and fall in exactly the same way as ocean tides but on a different scale. In the hills rain timings follow the moon in waning / waxing quarters and should be mapped for future forecasting.

**3. Ocean:**

a) Interface:

The ocean as the next stage of transition from the Thanmatra spectrum to the Panchabhuta spectrum of resonant states at the Raja interface connecting the Thama state of the Earths solid boundary. It's a critical resonant interface that provides the means to convert gravitational changes into useful power. As shown earlier this interface cannot exist unless the RS/RO orbit ratio matches the required cycle of 10 and that is not on other planets and proves the Sankhyan or Vedic concept that the ocean on earth is a polarized form of dynamic space in fluid form or the Raja state.

b) Potential fluid powerhouse:

Deep ocean tidal variation is the most reliable and perpetual source of power for it can be converted to hydrogen through a simple technique. Large floating vessels or platforms moored flexibly to the ocean floor can provide the driving power to electricity generators during the period of tidal variation. As an example the lifting of a 1,000,000 ton vessel or floating platform can generate at least a gigawatt of power daily from the average one meter tidal variation, at a low voltage of around 15 volts which can be used to electrolyse sea water to extract hydrogen primarily, at no direct operating cost except amortization over a very long period. About 40 Kwh produces about one kg of hydrogen as experienced by manufactures now and is not cost effective compared to other fuels. Conventional fuels can be converted suitably to fill other needs. Tidal production has the most desirable advantages of producing a green fuel free of direct production cost and can be used to run all and every type of prime mover in the world with the guarantee it will be available forever till the oceans dry up, if ever.

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**EXTRACTING HYDROGEN FROM TIDAL POTENTIAL VARIATION WILL LEAD TO AN UNPRECEDENTED ENERGY SURPLUS REGIME WORD WIDE.**

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c) Resource recycling:

Moreover the PH value of the ocean is a direct initiator to replenish the hydrogen from the abundant store house in space for it is in fact hydrogen in nascent form of the holographic Purusha state. India should immediately take the lead in using the eternal and abundant ocean's potential power provided by the resonant gravity field in space and create the greening of the environment free of cost. Airlines, Railways, Road transport, Marine transport, centralized power generation are by far the major fuel users that can change over to tidally generated hydrogen at minimum cost and modification.

d) Origin of sentient life:

The teeming marine life provides the balance in the oceans and must be nurtured with utmost care to maximize that population to maintain the Thama / Raja balance in the vital interface between land and air. Marine life is a silent indicator of gravitational changes long before the event and researched data should be collected to forecast major long term changes. The birth of off springs on land too begins in the fluid environment as the first stage of the sentient cycle, as the 10 Avatars confirm. Recently huge shoals of dead fish were spotted worldwide, seemingly without reason, but a critical study will show that stellar shock waves, created by the unique transit of both Uranus and Neptune over the ascendant, exacerbated by the crossing of the moon across the ecliptic at the same time as the cause . The combined transit lasts for many years and has recently triggered numerous earth quakes, cloudbursts and cyclones that could have been predicted years in advance through stellar monitoring. Refined prediction will allow preventive / mitigating action to be taken in advance.

e) Predictive interface:

While the ocean tidal resonance is an indicator of minor potential changes caused by the stellar envelope, there are numerous other indicators to show the minute gravitational field alterations that in fact initiate sustained changes causing advantageous or disastrous effects. The ocean acts as the shock absorber in responding to the stellar gravity changes like the tides but sharp gravity alterations create indicators far in advance, Research in this interface will yield vital information that will prepare humanity to take corrective action far in advance.

4. Earth:

a) The first layer at density 2:

In the Sankhyan spectrum of coherent Thamasic state, the crust of the Earth provides the dividing framework for the next spectrum of seven levels. Leading from the Mahad scale invariant state and ending in the Purusha singularity at its very center which creates the resting potential to cause the gravitational acceleration in it. It is highly significant the Earth is a spectrum of seven coherent states that is always in a dynamic oscillatory state, following its own cyclic time interval. The existence of continuing micro-seismic recordings are the reactions to the perpetual dynamism of the three Guna states, following the PHO algorithm sweeping through it. Its rate of spin and orbital velocity is constantly balanced to keep it in the Abhavath state and that too creates micro gravity accelerative changes that all sentient life feels and responds to. Hence the soil is a living but not sentient entity. Unless we realize this fact botanical growth and agriculture, which are the resource conservative processes on Earth, will be destroyed. Spontaneous evolution is aided by both the atmospheric and stellar envelopes constantly. The balance is critical but attained over ages.

b) Thairagyonum or genetic interface:

Natural botanical growth is again self-organized through resonant bands of harmonic synchronisation with the other envelopes. The equatorial band flourishing with its dense forests of unimaginable genetic variety is the most resonant state because of the rotating centrifugal force, causing the radiant Satvic states, as the Coriolis force, that sets rings of Vrithi or vortices which closes in at the poles. The electromagnetic phenomena at the pole are a direct evidence of the resonant / harmonic nature of space but the increase in density that causes visible auras is proof of its holographic mode of action.

c) Acme of resource conservation:

Organised agriculture is a resources conserving cyclic process and after tidal power generation, it is the most economical process of fulfilling human and other needs of living forms. It must be recognized that it is nature's industry following the resonant harmonics of the atmospheric and stellar envelope. Government planning should give first priority to this aspect as it is a self generating and resource-recycling process and protect the workers in this field from the shocks of inept planning leading to trauma and even death. Their planning horizon must take into consideration that botanical growth provides products that not only conserve resources but also fulfill the needs of food, health as in Ayurvedic needs, plus a whole gamut of peripheral needs of a flourishing society. Large scale centralized storing and manufacturing processes are a direct threat to human nutrition, health and to avoid it, planning emphasis must be made to create local self sufficiency. For nature's resonant states triggers the growth of the right

varieties suiting the seasons in each locality and gives protection that works through the auras.

d) Soil dynamics through sentience:

Agriculture needs soil that is self generating and self renewing to maintain its required state of resonance. The teeming microbial bacteria, worms and insects that renew the soil again respond to the state of its aura. Tampering with soil to increase growth artificially is not only a process of soil destruction but a long term threat to resource conservation. It's vital to restore the right conditions naturally through cycles of aura changes in each location. Similarly cloning breaks the harmony of plant growth that follows rules of self similarity by distributing its nodes as harmonics or the so called Fibonacci number ratios. Animal, insect, bird and fungi are all products of the micro gravity changes and should be intelligently integrated into the agricultural environment. Research should be towards integrating this environment by hands-on analysis and not desultory routine in a lab analysis that is far removed from nature's dynamic domain.

e) Sankhya Sutra 53 and Ayurveda.

Agricultural science must be synchronized with cyclic gravitational variations in space to sustain a harmonious & accelerated growth cycle, in a green environment. The genetic cell with Tamasic maha moha cores of  $10^{18}$  levels of intelligent states produces every genetic combination the Earth requires millennia before it is used and this knowledge library should not only be understood but worshipfully protected so mankind can be spared the need to bungle with its health needs through desultory research. Predictive planning by using the stellar indicators will extend that horizon to decades ahead, providing time for corrective action. While local rainfall can be created to mitigate short term traumatic situations, long term action of extended drought etc will need the linking of rivers, network of balancing canals, ponds, lakes and dams in critical zones to create a continuing process of agricultural self sufficiency.

## 5. Aura

a) The envelope of silent intelligence surrounding all Kaivalya states:

The Aikantha state in Abhava not only forms the primary elemental field at the substratum of space but at every higher density level of incremental fields in resonance with Purusha state of 8 orders of interactive dynamism. Hence the Thanmatra or the silent and undetectable field in the Abhava state also surrounds the first set of genetic ensembles forming the Abhava state. It is the veritable storehouse of information at  $10^{18}$  orders that is named junk genes today but forms the virus or spores that initiates any and all growth at that level. It is the seed of spontaneous evolution suited to the local aura or micro gravity field in the Aikantha state. In short it is the origin of all of us.

b) Integrated intelligence:

The 18 order Tamasic states has both potential as Abhiman and expansive states of Ahankar both of which is the hallmark of protection of sentience. It is the very memory bank of the Karma principle that sets the course to following a predestined goal guided by the external aura. Every activity or traumatic event is stored in that perpetual memory which guides the genetic ensemble to survive elegantly in the future in independence for Kaivalya is its axiomatic birthright. The internal Thanmathras in tandem with the external Thanmatras creates the Karmic path to excellence through predestination. Hence sentient life is the most precious gift of independent existence on a specific planet at a predetermined distance from an Aikantha state of cosmic control.

c) Sentient Awareness

Vasudaiva Kutumbhakam exists perpetually and is confirmed by even the Biblical saying "the meek shall inherit the Earth" meaning only "those who submit to the one axiomatic law of existence". Wild animals teach the meek ones through trauma to survive by becoming aware of the eternal intelligence surrounding them. In this background several hard midcourse corrections are needed to be taken by all of us. Global warming and green house gases conjectures are a desperate bid to pass the blame of aggressive action that thwarts the intelligent field around us from harmonizing into the balanced Abhava state. Every life form has an interactive density  $10^{23}$  states in the Aikantha form and destroying it will upset the silent balance into a state of utter chaos.

d) Destruction of Sentience:

Daily one million tons of living genetic ensembles are decimated instantly that releases  $10^{18}$  potential states in the expansive mode. Sudden release of Tamasic potential MUST lead to the Vikharo state of instant radiation that traumatizes the aura into an explosive mode of correcting the micro gravity field over a prolonged period. The prolonged reaction towards attaining a balance results in the proliferation of new life which indeed has resulted in a population explosion in the meekest section in the world's human population. We cannot even see or detect it and how can we ever realize what it has set in motion? The scenario is easy to imagine for the nuclear holocaust in Japan has set in motion waves of misery that exists even today.

e) Axiomatic knowledge as the bulwark to harmony

Sankhya Karika by Kapillamuni, placed in the Bhagavadgita, was to be understood in its entirety. That was only to pave the way to expose axiomatic knowledge, which by its very definition, was no one's special preserve, as it has existed always and will continue to do so as the single natural mode of manifestation ever possible. Being based on numerical logic it attains universality and objective acceptability by all of us for it is the only theoretical derivation in existence that is based on unification to create independent states of existence. The Rig Veda sloka 9, given at the end is an exacting reminder to the human population not to derelict from its Karmic duty.

f) Axiomatic access to the knowledge bank:

Siddhi the centered state at 3.57 cps as the Theta state, is the process of submitting freely, voluntarily, comfortably to the field of intelligence we are always submerged in and allow its ever-present potential to replenish the sentient ensemble with genetic propensities that will enable it fulfill the Karmic destiny, for which it is given the gift of life. Kapillamuni called it Siddhi yoga and Patanjali called it Ishwara Pranidhana leading to Pranayama ending in the Pranava mantra OM naturally. Nature is infallible indeed.

g) The corridor to intelligence through the 3.57 potential change:

The Pineal gland centered atop the vertebral column of 32 compound segments attains the ultimate potential through synchronized resonance attained in the vertical state, from its surrounding aura field and experiences the dynamic information directly and effectively to alter the state of the body and mind on its own self potential thus attaining the state of fulfillment that is its birth right. The process lasts for one quarter or 21 minutes of the orbital cycle of 84 minutes for the aura field is the gravity field on earth but in the Abhava state of undetectability. The entire spectrum of information transmission and reception commonly called ESP or the Para Normal spectrum leads to perceiving and experiencing knowledge and action without the awareness of the sensory mechanism. All sentient life depends on it and uses it as a matter of course that borders on the magical.

h) The genetic foundation to individual's education, skills and performance:

The genetic ensemble with its core of 18 orders of potential states is the custodian of the knowledge memory bank that holds the reactions of every Karmic act of importance, to form the guide to the path in the future. These Vasanas come to the fore on its own, guided by the stellar and aura fields to asserts its inherent knowledge in fulfilling the tasks it was born for. Observation, experience, interactions and above all the 3.57 corridor lead it to completing its task unless obstructed. Hence education must support this inherent strength and the correct conditions given to perform effectively. Unearned awards, rewards, gains, gifts are the obstruction to performance that would lead one to the destined goals. The problem is more compounded by the environmental and stellar influences. Therefore the approach to human wellbeing and welfare must focus on these inherent or swabhava qualities before we get into mechanised routines of education that only produce a process of inhibition. Skill of all people are primarily dominated by their genetic makeup and unless this aspect is not factored in, the degeneration of populations into a desultory and demotivated workforce is bound to take place.

i) Experiential learning through the aura envelope:

Learning to enter the Real Dream state conditioning leads to awareness and control of the seven aura levels. The number and level of possibilities in using the auras are many. Siddhi, Yoga, Nadi Shodana, acupuncture, physical manipulation of the nodal centers, dowsing and many similar skills creates

experiences from which one learns new ways to understand all natural phenomena. The subject as a scientific regime is extensive but it must be experienced directly as a self taught, self developed and self experienced discipline to be successful. Others cannot teach one the feelings that create the right levels of performance.

j) Ayurvedic foundation to Universal health.

The Ayurvedic process derived through axiomatic numerical logic defined in Sutra 53 and onwards and later expanded and expounded by Atreyamuni as the system of integrated practices that harmonise the aura with the soil, flora and fauna in a reactive cycle, all of which turns itself into a flourishing state. The integration is so refined that food and medicine are from the same botanical growth. As a case to point a mongoose after killing a snake removes the poison by chewing a leaf found by smelling, that is also the food for other animals. Ayurveda follows the same logic of the Sankhya sutras but from the next higher field density level of the genetic states and covers every aspect of sustaining the living process efficiently and effectively. Above all Ayurveda is a preventive system that corrects deficiencies at source or uses nature's own methods of predictive planning to attain goals harmonious states.

k) Predictive forecasting of disasters:

Result oriented forecasting using stellar observations, para-psychological information, behavior of fauna & flora on land, sea and air as indicators can be developed to predict local weather, rain, storm, floods and other unusual events to help in taking early & appropriate preventive action. The foundation for research in this area is well laid through Sankhya derivations and a complete team of investigators should be developed to compile data relating events and the causes under those heads to form information bank that can evolve plans to mitigate the adverse affects to life and property.

l) Predicting catastrophes centuries ahead:

Accurate forecasting techniques using advanced analytical methods to identify significant stellar indicators can be developed to predict macro disasters years ahead of the event. The Tsunami in 2004 had identical stellar positions in 1883 when the Krakatau explosions shook the world in a very similar way. The stellar indicators are extremely significant and pointed to the conjunction of two planets that crossed the ecliptic which split the local gravity field violently. An experiment during a Total Solar Eclipse created the same type of forces that displaced a wooden log violently at the moment of totality. Similarly the series of cloudbursts and mega earthquakes around the world including the Uttarakhand and Kashmir cloudburst along with the Nepal quake have the stellar indicators pointing to the Uranus, Neptune conjunctions at the ecliptic and which have been recorded in the past about 168 years ago. The Vedic intellectuals predicted the global inundation in the Magha period and prepared for it, without which we would not be discussing Sankhya now. See article on stellar cause of tsunami in Java/Sumatra every 120 years in "tsunami .pdf" on web... Recorded proof is there in "Eclipse experiment" as proof on web).

m) Economic planning based on resource recycling principles of a closed balanced cycle.

Economic stability can be achieved only by planning based on resource recycling by predicting future needs over an extended horizon to cover the, necessary range of activities. Planning based on predicting future rate of economic growth by a process of correcting past inadequacies will certainly lead to a gap in performance. Correcting past shortfalls in the future period without the certainty of resource availability then, is a planning technique of driving a car looking into the rear view mirror which must lead to disaster at some time. Because of these factors the world economy, based on a competitive growth cycle leading to needless consumption and perennial resource constraint, is in utter shambles, leading to plundering and destruction of existing resources, and in the process creating despondency and demotivation of the working population which again lingers it with its own series of negative consequences. Unless resource recycling is looked at as the most important aspect of economic self sufficiency through predictive planning cycles, human welfare will forever result in the endless "dog chasing its tail" syndrome of needless industrial growth wasting natural resources.

**Summarizing**

Sankhya derivations show beyond a shadow of doubt the axiomatic eternally dynamic manifestation process is flawless, and returns to a state of dynamic balance in the resonant state that is never stationary. Humanity has no alternative but to submit to this eternally perfect state with absolute certainty

that nature can do nothing wrong. We, having been given the means to understand and use its resources, humanity must alter its focus with determination to use nature's resources meaningfully and gainfully to attain the ultimate state of resource conservative cycle of harmonious living in freedom and comfort.

1. The energy needs can certainly be put into that closed loop of perpetual balance by switching over to generating tidal hydrogen. thus conserving non renewable resources.
2. Transport, using the levitationary process that is mathematically possible in the axiomatic derivation in Sankhya theory of total unification of all manifestation through a single algorithm establishing an eternal dynamic potential in the resonant state.
3. Conservation of agricultural resources through integrated management as an industry based on predictive forecasting of weather, stellar condition forecasting, holistic soil regeneration, creating planned harmony by using flora and fauna to sustain food crop plus Ayurvedic herbs in a synergistic loop to conserve genetic and aura compatibility.
4. Financial planning should be based on resource conservation through recycling and regeneration, so the rate of growth is integrated with the assured availability of all needed inputs, for the period of the planning horizon. Resource regeneration should be formulated to accommodate the complete holistic cycle including the macro and micro gravity variables wherein all contingencies are integrated to form a master plan where the planning horizon may even extend to a century. Such advanced planning can only be effective if there is absolute stability in the annual cycles
5. Human welfare through holistic education, skill development, social harmony that integrates into the larger cycle of variations in the planetary boundary, must be based on the intelligent use of the aura spectrum which covers twice the sensory or detectable spectrum and must form a vital part of planning process. The foregoing alone will offer the greatest breadth of meaningful occupation for a large number of people who have inherent genetic skills to understand it. The entire spectrum of sentient life from the smallest insect to the largest animal are completely dedicated to decoding and acting on the intelligence gained through it. Flawless bird migration over thousands of kilometers to insect population building mega societies are not through any educational process but a hands on reaction to the perpetual dynamic gravity field in which we are all submerged for our very existence. Future Universities must evolve into centers of innovative and advanced action enterprises rather than the present penchant for sterile paper submission based on desultory analysis of nature. Temples in Vedic times were exactly such universities where every human activity was honed and perfected through an attitude of submission and devotion to understand nature that enabled them to follow the Karmic predestined path to utter satisfaction.
6. This write up has been created as an eye opener to know of the immense amount of ADVANCED SCIENTIFIC knowledge that formed the Vedic library but was eclipsed by the traumatic global cycle of renewal. All of humanity must make a concerted effort to understand its content and create a paradigm shift towards the goal of Vasudaiva Kutambhakam, for the unequivocal signs of the precession cycle leaves humanity another 3000 years before the reversal into the ice age in the Abhijit nakshatra period. There is tentative confirmation even from the citadel of space science which acknowledges the error of forecasting global warming that would hurt humanity..

Conclusion.

Physics had a close brush with an opportunity to expose the axiomatic foundation of manifestation but was not to be as Einstein himself bemoaned the lack of the correct mathematical foundation in our scientific system. Einstein, an intellectual with deep insights, steered both the theories of General and Special Relativity to the brink of total unification by seeking a parameter he called the critical matter density that would prove once and for all, that space was spherical or bounded or curved positively and not a negative curvature that expanded endlessly or the median case that neither curved nor expanding

into infinity described as flat. Had he found the solution he too would have created an axiomatic theory by default. Unfortunately though his logic was perfect the mathematical procedures he used constituted integration and differentiation as the means that was based on flawed logic, where any rise in value reached infinity or the reduction to zero, both of which did not exist in reality. But in Sankhya the Abhavath state of balance was indeed the critical matter density value in dimensionless units as  $3.6 \times 10^{-25}$  cycles / axiomatic cycle which closed his equations to create the index of balance as unity. The glaring fact is that Sankhya was 33000 years old and underscored the intellectual depth of knowledge then. Einstein in his book "The Meaning of Relativity" says in the very last line "-----*must lead to an attempt to find a purely algebraic theory for the description of reality. But nobody knows how to obtain the basis of such a theory*". Hence stating that Sankhya, as an axiomatic theory, was indeed Vedantha and the acme of unification, is totally justified for it also provided the very solution that General Relativity needed to say QED.

Finally we go back to the Rigveda, where the first Sloka Mandala 1 produced the volume of a gravitational waveform in mnemonics, giving the 25 digit numerical values that more than matched Michelson Morley's measurements on light velocity. (see Rigveda on website) But the same Mandala 1. Sloka 9 also produced the following admonishment that should harken us to accept Sankhya as the Acme of Unification.

9<sup>TH</sup>. SA NAH: PITEVA SUNAVE--AGNE SU--UPAYANO BHAVA, SA--CHA--ASVA ANAH: SVA--ASTAYE

The complete holistic translation covers all the inputs from 1 to 9 as follows:

*The consequence, of not following the principles expounded, is: from generation to generation, such human beings will exist only as students or learners, without being able to understand and master the knowledge Universal manifestation; and further, the consequence of not following the previous principles compounded with ignorance of the knowledge of the human self (as an entity of unique importance): can only lead to dissolution, degradation or destruction.*

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G Srinivasan  
Kotagiri

<http://www.kapillavastu.com>

<https://www.youtube.com/watch?v=sz29ypaaiX8>



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# LETTER TO ISRO

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To The Chairman, ISRO.

Namaste Dr. K. Radhakrishnan, (also colleagues and heads of related depts.)

My sincere congratulations to you personally and your excellent team that launched MOM, so successfully and accurately. One cannot but admire you and your team's dedication to succeed in such a complex project comprising so many unknown factors. Since the craft is in Mars orbit, may I suggest/request an experiment be conducted (if possible), that would not only form a landmark in space technology but also lead to the creation of a paradigm shift towards an axiom based science. If successful it can have repercussions from GR to SR along with a conceptual change of the structure of space, leading to redefining the Standard Model.

I am an Industrial Engineer and have researched into Vedic science for the last 40 years and have been successful in decoding an axiomatic scientific theory called Sankhya, ostensibly composed by Kapillamuni and it forms the core of the Bhagavadgita. Kapillamuni had deciphered the phenomena of manifestation through axiomatic derivations, encompassing the unique principle of self-similarity & scale in-variance, using combinatorial mathematics, many centuries ago. Please see website <http://www.kapillavastu.com> for complete details. It has been accessible to visitors for the last 10 years.

But this exotic theory was not exposed by any of the translators for the following reason. (PI See Comaparison.pdf on web). The Vedas and other compositions were not interpreted or decoded correctly, for researchers did not realise that each Sanskrit vocalized "letter of the alphabet" had two values namely numerical and alphabetical. (Sanskrit.pdf on web). Even today the Vedic academia is not open to reviewing Vedic science and Sankhya as equivalent too modern Physics and Cosmology despite numerous attempts on my part.

Hence, the Rigveda for instance was to be decoded using the Pratisakhya as the numerical decoding manual but unfortunately none seem to have used it or benefitted by it. Hence, treated as a pedagogical creation, it did not highlight the real meaning. The first Rigveda sloka is about the nature of space, derived axiomatically, to identify its characteristics numerically to 25 decimal place accuracy. I have attached Rigveda .pdf as an example, for it was the very first scientific surprise 40 years ago, that led me to decoding the theory of theories the axiomatic Sankhya and the overview is in "World Affairs Journal" article vol 6, no 3 in 2002 ( attached above).

On the website the book part one "Secret of Sankhya: Acme of Scientific Unification" with its supporting articles, explain Sankhya in detail. Part two is yet to be published, subject to verification of critical parameters. Swami Vivekananda was the first intellectual in recent times, who praised and spoke with great conviction on Sankhya at world conventions.

Since Sankhya has been derived axiomatically, it is valid for all times, as numerical axioms cannot be disproved. Hence it is a precise theory in which predestination and predictability forms an inherent part as the principle of Karma. It is in factual terms Vedanta in a precise numerical format. As a real example it is capable of just as precise a prediction as when ISRO placed MOM in orbit or eclipses were predicted centuries in advance by Vedic scientists.

In order to provide a convincing train of logic, the most important constant in Physics, the velocity of light, is derived axiomatically below, as the vital factor that has caused serious misinterpretations in physics. It

will also explain the Sankhyan excellence in using the principle of self similarity, as it is relevant to what follows (same derivation is given in detail in PHO.pdf attached and extracted below for convenience).

The self similar ratio arises when a resonant interactive state of ratio 1 / 2 changes to a harmonic with a ratio x and 1-x as shown below:

$x = [\sqrt{1+2^2} - 1] / 2 = 0.618034$  ; which then becomes the source of a self similar time interval in two modes

of simultaneous ratio 1 /x and a sequential ratio 1 + x as:  $1/x = 1 + x = 1.618034$  ;

The proof of its constancy in the asymptotic limit is:  $\sum_1^{\infty} x^n = 1/x = 1 + x$  and

on transposing  $1 = x + x^2$  represents the dynamic state in harmonic balance. It is just the same state of resonance as  $1/2 + 1/2 = 1$  in both directions of displacement at a fundamental resonant oscillatory interactive rate. It is the first state of resonance in two locations, as the center and boundary where the fundamental and harmonic states are in synchronisation or simultaneous oscillatory interactions exist to create the dynamic state in space. Then the interval in that self similar harmonic cycle becomes  $x - x^2 = x^3$  and the resonant half of that ratio is  $x^3/2$  and on transposing it becomes  $x^2 + (x^3/2) = 1/2$  and  $x - (x^3/2) = 1/2$  equal to the fundamental resonant ratio again.

An axiomatic cycle has 10 interactive resonant states (shown in PHO.pdf) and  $2/x^3$  forms the ratio of the interval that is algebraically added or subtracted to the simultaneous colliding or the sequential radiating part of an interaction. Therefore the cycle of 10 raised by that constant ratio, equals  $C = 10^2 / x^3 = 296575967$  as the harmonic oscillatory rate per axiomatic cycle, maintained in **that interval**, this initiates the transmigration of stress quanta as a photon. At the fundamental resonance ratio of  $1/2$  or 2 there is no difference in the oscillatory rate or displacement in both directions of the interaction and hence it remains in the same location. The important point is that rate C per cycle continues perpetually as a self similar and scale invariant factor in both the fundamental and harmonic resonant states mutually supporting resonant phases as shown above. In Sankhya the Tri Guna oscillatory rate C is an axiomatic constant and exists eternally in a dynamic state. The foregoing is the axiomatic solution in brief to the famous “problem of the harmonic oscillator” in Physics.

Michelson Morley measured the velocity of light as  $c = 299792458$  meters per second and at a meter wavelength its oscillatory frequency remains the same  $CL = c$ . The frequency or the wavelength was not measured but the velocity of light c was subsequently defined as a universal constant.

Since an axiomatic constant cannot be changed, the frequency of c as  $CL = 299792458$  must be reconciled with C, again axiomatically, as a self similar ratio. Sankhya derivations show the self similar ratio of Radius of Sun  $RS=6.985E+8$  & orbital radius of Earth  $Ro=1.491E+11$  being exact only as a simultaneous or instantaneous one as  $Rs/Ro$ . Therefore its logarithmic value, raised to the cyclic base of 10, must equal the numerical ratio  $CL/C$  as  $Fc$ . It is exactly equal as shown below:

$$CL - C = 3.2165E +6 \dots \text{and} \dots CL / C = 1.01084548 \quad Fc = 10^{Rs/Ro} = 1.0108455 = CL / C .$$

The above equivalence, not only shows that Sankhyan axiomatic derivations are correct but proves that light photons, transmigrating as a stress quanta, undergoes a shift in frequency from a high CL to C the axiomatic constant. Further the difference in the frequency  $CL - C = 3.2165 E+6$  shows the value of the number of interactions compressed within the same cycle as a merged or simultaneous addition creating an increase in the “density” of interactions in the colliding or simultaneous half of the cycle.

Below, the complete derivation is repeated so that the extraordinary logic of axiomatic concepts simplifies the entire gamut of manifestation as a dynamic dimensionless ratio that is in resonance with time of the interactive state. The frequency and velocity values become identical at meter wavelength. (Next page)

Solar Radius

Earth Orbital Radius

Measured frequency of Light at m wl

$$R_{ss} := 6.9756298612 \times 10^8$$

$$R_{oo} := 1.49598421 \times 10^{11}$$

$$c := 2.99792458 \times 10^8$$

Axiomatic calculation from Sankya

Perpetual Harmonic Oscillatory state C in Space

$$x := \frac{\sqrt{1 + 2^2} - 1}{2} \quad C := 10^{\frac{2}{x^3}} \quad C = 2.9657596692 \times 10^8 \quad \frac{\text{Oscillations}}{\text{cycle}}$$

Universal gravity coupling constant

Gravity field compression differential

$$T_c := \frac{(2\pi)^2}{\frac{1}{2^3} - 1} \quad T_c = 151.8861885958 \quad c - C = 3.2164910781 \times 10^6 \quad \frac{\text{Oscillations}}{\text{cycle}}$$

$$10^{\frac{2}{x^3}} + \frac{R_{ss}}{R_{oo} - R_{ss}} = 2.99792458 \times 10^8 \quad \frac{R_{ss} - R_{ss}}{(c - C) \cdot (R_{oo} + R_s)} = 1.0065881621 \quad 1 + \frac{1}{T_c} = 1.0065838771$$

Presenting the above in a simple way it shows that the ratio of length in meters equals ratio of oscillations at perpetual resonance as:

$$\frac{R_{ss} - R_{ss}}{R_{oo} + R_{ss}} \cdot \frac{1}{1 + \frac{1}{T_c}} = 3.2163959778 \times 10^6 \quad ((c - C)) = 3.2164910781 \times 10^6 \quad c = 2.99792458 \times 10^8$$

The derivation on parameters on Mars through the same logic is shown as a block in the next page with numerical solutions so that there is no doubt. The ISRO satellite orbiting Mars may be able to verify that the frequency of light from Sun at a meter wavelength is CM. {please see next page as mathcad format cannot be changed.}

On Mars the shift in oscillatory rate is derived axiomatically and shown below in detail:

Solar Radius	Mars Orbital Radius	Frequency of Light on Mars CM (m wl)
$R_{ss} := 6.9756298612 \times 10^8$	$RM := 2.2793997251 \times 10^{11}$	CM not measured yet

Axiomatic calculation from Sankhya

Perpetual Harmonic Oscillatory state C in Space

$$x := \frac{\sqrt{1+2^2}-1}{2} \quad C := 10^{\frac{2}{x^3}} \quad C = 2.9657596692 \times 10^8 \quad \frac{\text{Oscillations}}{\text{cycle}}$$

$$\text{Calculated CM} \quad CM := 10^{\frac{2}{x^3} + \frac{R_{ss}}{RM-R_{ss}}} \quad CM = 2.9867965543 \times 10^8$$

Universal gravity coupling constant

Gravity field compression differential

$$T_c := \frac{(2\pi)^2}{\frac{1}{2^3}-1} \quad T_c = 151.8861885958 \quad CM - C = 2.1036885037 \times 10^6 \quad \frac{\text{Oscillations}}{\text{cycle}}$$

$$10^{\frac{2}{x^3} + \frac{R_{ss}}{RM-R_{ss}}} = 2.9867965543 \times 10^8 \quad \frac{R_{ss}-R_{ss}}{(CM-C) \cdot (RM+R_{ss}) \cdot \left(1 + \frac{1}{T_c}\right)} = 1.0050505895 \quad \left(1 + \frac{1}{T_c}\right) = 1.0065838771$$

PROOF  $\frac{c-C}{CM-C} = 1.5289768768 \quad \frac{RM}{R_{oo}} = 1.523679 \quad \left(\frac{c-C}{CM-C} - \frac{RM}{R_{oo}}\right)^{-1} = 188.754861211 \quad T_c = 151.8861886$

FREQUENCY OF METER WL ON MARS IS 298679655 cycles / second AND SHOULD BE VERIFIED.  
 SINCE THE COUPLING CONSTANT  $T_c$  IS EXCEED NO CONDENSATION CAN TAKE PLACE . REASON  
 WHY MARS IS A SMALLER PLANET AND RED TINT IS DUE TO LOWER FREQUENCY.

Since the value of 188.75 exceeds the  $T_c$  interval, needed to maintain interactions at the same location and thereby increase "density" of oscillations by merging to form heavier states, the "liquid" states cannot remain stable and all fluid or vapour phases will expand and radiate away from its surface. As a result accretion is prevented and surface area and volume remain smaller than the optimum at that orbit.

The remarkable equality of the time bound product of frequency  $[c - C]$  or  $[CM - C]$  into orbital radius  $R_o$  to  $R_s^2$  as the relative Solar surface area is a clear indication that the change in light frequency is proportional to the change in the surface to orbital radius of transmission distance in meters. This equality indicates that dynamic space is at a balanced resonant oscillatory cycle  $C$  and any deviation results in compression of  $C$  as  $c-C$  and likewise an expansion of  $R_s$  to  $R_o$ .

This is the new aspect that simplifies understanding gravitational mechanics and is on my website. The compression and expansion of dynamic oscillatory states in space is operated by a universal coupling constant  $T_c$  that identifies the numerical value of the change of the two states of dynamic time intervals of simultaneous compressive interactive state and sequential expansive interactive state. The fine structure coupling constant  $\alpha$   $1/137.036$  is a derivate of  $T_c$ . I have not used any the classical terminology found in Physics (except coupling constant) as it can be misunderstood in an axiomatic derivation.

The most important and urgent need to confirm Sankhyan axiomatic derivation over and above those listed below for easy reference is the oscillatory frequency of the light wave received on Mars. It will show

that it is red shifted relative to light photons received on Earth. The red tint on Mars is due to the frequency shift. Similarly a blue-shift is indicated on Venus and Mercury relative to CL. From the standpoint of the axiomatic fundamental logic all light received from any source must have a blue shift or a higher frequency than C to transmigrate towards space, the eternal absorber of all EMW / Gravitational oscillations above C. Similarly in my book part 2 Gravitational waves (as predicted in GR / SR) is derived as 3D scalar waves that interact only with center of mass of bodies. While the excellence of Sankhyan derivations are proved and listed on the website (plus in the second book) any scientific confirmation from conventional Physics will allow the acceptance of Sankhya as a complete theory.

Here are listed a few reasons why Sankhya is correct (the same derivations are shown in PHO.pdf on web).

The proof of the correctness of Sankhya lies in its ability to derive the mass of all stable particulate states from basics without any empirical or experimental inputs similar to the derivation of the dynamic oscillatory state C above. The following stable states have been derived from basics and values in Physics match it exactly. To reiterate, it is not possible in Physics even today. PI see PHO.Genetics on web for the values

Neutron as Pn,

Proton as Pm,

Nucleon as PM (stable harmonic state, not verified in Physics

yet) Neutrino as Ne (not measured yet in Physics

Mly as the quanta (mass of Planck's constant quanta)

Electron as Mee (proton boundary state and not a particle)

Mep (PM boundary state –not identified in Physics)

Me (Neutron boundary state- not identified in Physics)

These parameters are detectable states in space whereas the basic dynamic states in it cannot be detected because it is in resonant and harmonic balance.

The verification of the CM value experimentally will be a cardinal proof that can allow Sankhya and science to progress further.

Further proof lies in a gravity convertor, built from Sankhya sutra 37 derivations (operating in my office), which demonstrates that gravity, electrical, magnetic and all its derivatives all follow the PHO or TriGuna oscillatory state universally. The rotary convertor is an oscillatory state generating power which sustains its rotary oscillatory state. It provides the practical proof for the universal interactive state (PHO) and is just one single axiomatic process that provides dynamism in space

In addition there is a proof in the eclipse experiment (see website) that proves the density in space is of a precise value. Many more proofs are there, one of which defines the critical matter density in space as  $3.6 \times 10^{-25}$  kgs /cum. , and the figure that Einstein was seeking to justify that the curvature in space is always in balance. Sankhya has many more exotic proofs (in part two of my book).

Briefly, the above confirmation of space as defined in Sankhya allows us to create a spacecraft to float in space when its driving element is made to spin at 532 revs per second or about 31000 rpm. The thrust at that rate creates the PM state (the neutral nuclear harmonic state but not detectable) referred to above and that reaction can be vectored to provide a direction. I have experimented with Gyros up to 15000 rpm to observe the lift and also Laithwaite and Searle too have had reported the same phenomena with their experimental disks. The late Depalma did extensive experiments to confirm it and developed a Faraday disk that displayed overunity principles. Parahansa Tewari too verified these principles through his operating models and published his findings. If the CM verification is successful, I am willing to discuss ways and means to research & test a real working model. I sincerely believe that success in these attempts will place India in unenviable position in space and energy technologies.

But without the axiomatic Sankhyan theoretical foundation of dynamic space, the formulations in Physics cannot be substantiated. The caveat is in the mathematical interpretations of "simultaneous interactive states", for a simultaneous event interval is zero, which leads to the hierarchy disease in calculus.

I do not want to elaborate too much here as the web contains all information. I presume the above would be enough to lay a foundation for meaningful discussions towards setting up a research wing under your control in ISRO to develop the full potential in space for the benefit of humanity. In conclusion please understand that I do not seek any recognition, reward etc. but only that Sankhya should be raised to its pedestal as the axiomatic theory that cannot be changed or Vedanta. Only Indian scientific intellectuals will be able to do it.

G Srinivasan  
Kotagiri

Email [gsvasktg@gmail.com](mailto:gsvasktg@gmail.com)

Mob 9003708817

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## SANKHYA SUTRAS

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## SANKHYA KARIKA

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### SUTRA 1.

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#### The Dynamic Substratum:

दुःख त्रय अभिघाताज् जिज्ञासा तदभिघातके हेतोः ।।१।।

दृष्टे सा अपाथाच्चेन ऐकान्त अण्यन्त अतो अभावात् ।।

दुःख त्रय अभिघाताज् जिज्ञासा  
Du:kha traya abhighātāj jijñāsā  
Stress triple- interaction investigations

तदभिघातके हेतोः  
thad abhighātake hetho  
Such- interactive-modes exist

दृष्टे सा अपाथाच्चेन  
drishte sā apārthā chenna  
Detect such- would have been meaningless were it not for the

ऐकान्त अण्यन्त अतो अभावात् ।।  
aikāntha atyantha atho abhāvāth 1.  
Coherent Perpetual Dynamic Un-manifest state.

Meaning:

Investigating the triad of interactive stresses shows that such interactive modes of stresses exist but it would not

have been detectable, had it not been for the existence of the synchronised - perpetual - dynamic - unmanifest state of existence (of the substratum).

*Notes: This Sutra forms the foundation of Sankhya because the interactive stage in three modes could exist only because the medium has the three characteristics that make it unmanifest. Further, by the use of “were it not for the” these characteristics were implied to exist as the underlying cause in every theorem and also provides the internal proof for every theorem. The final theorem derives it and provides the acme of unification of Sankhya logic through the three Gunas.*

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## SUTRA 2.

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### The Qualities of the Substratum.

दृष्टवः आनुविकः सहि अविशुद्धिः क्वाति शययुक्तं  
तद्विपरीतः प्रैयान् प्रयत्नः अप्रयत्नः क्विज्ञानात् ॥ २०॥

दृष्टवः आनुविकः  
drishtavad ānuśravik:  
Observation standard method

सहि अविशुद्धिः क्वाति शययुक्तं  
sahi avīśuddhi kshrayāti śayayukta  
certainly distorted- attenuated- of inferior resolution.

तद्विपरीतः प्रैयान्  
Tad viparīta: śreyān  
Hence alternative satisfactory

प्रयत्नः अप्रयत्नः क्विज्ञानात्  
vyakta avyakta jñā vijñānāt  
manifest unmanifest static potential kinetic potential

Meaning:

Standard methods of evaluation through detection are affected by distortion, attenuation and inferior resolution to details; but an alternate method that is totally satisfactory, is based on the principle of discriminating the basic and dynamic substratum into its appropriate components of the unmanifest, manifest, the self-potential and kinetic or dynamic potential.

*Notes: Observational methods have an inbuilt caveat that the time involved in the detection process is hidden or submerged and any accurate assessment requires the discriminating ability to assess such factors. Hence an intellectual method is needed to get accurate solutions by identifying the unobservable and the cause that creates it.*

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### SUTRA 3.

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#### The axiomatic three dimensional wave fundamentals of the substratum.

मूल ऋतिर् अविकृतिर् महः अयाः ऋति विद्युतयः सप्त |  
षोडश कस् तु विकारो न ऋतिर् नि विकृतिः पुषः ||३||

मूल ऋतिर् अविकृतिर्  
mūla prakruthir avikruthir  
Root oscillatory coherent & synchronised

महः अयाः ऋति विद्युतयः सप्त  
mahad adyāh prakruthi vikrutaya: saptha  
intense primary fundamental oscillatory rate harmonics seven

षोडशः कस् तु विकारो  
shodaśa kas tu vikāro  
sixteenth approaching reference to radiation –

न ऋतिर् नि विकृतिः पुषः  
na prakrutir ni vikrutir purusha:  
neither basic oscillatory - nor harmonics nuclear core

Meaning:

Fundamental or root resonant oscillatory state is synchronised, coherent and stable; the first interactive



oscillatory state is of maximum intensity; then there are seven levels of the harmonic oscillatory interactive stages followed by an expanding radiation above a sixteenth order of the fundamental value; the nuclear core is neither oscillatory nor harmonically interactive.

*Notes: The most magnificent theorem in Vedic science that defines and identifies the critical states that create the spectrum of manifest phenomena through an axiomatic interactive formulation. The unique process of intellectual verification by axioms has not been attempted in Physics.*

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## SUTRA 4.

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### 4. Verification of reality through axiomatic proof.

दृष्टं अनुमानम् आप्तवचनं च सर्वप्रमाण सिद्धत्वात् ।  
त्रिविधं प्रमाणं इष्टं प्रमेय सिद्धिः प्रमाणाधि ॥ ४००॥

दृष्टं	अनुमानम्	आप्तवचनं
drishtam	anumānam	āptavacanam
perception	inference-	axiomatic principles

च	सर्व	प्रमाण	सिद्धत्वात्
ca	sarva	pramāna	siddhatvāt
and	complete-	logic	by Siddhi

त्रिविधं	प्रमाणं	इष्टं
trividham	pramānamam	ishtam
threefold	rationale	appropriate

प्रमेय	सिद्धिः	प्रमाणाधि	४
prameya	siddhi:	pramānādhi	
theoretical	Siddhi. :	logical	container

Meaning:

Siddhi or conclusive holistic proof is arrived at by a process of logical and theoretical analysis of information

from observations, inferences and axiomatic principles. When such holistic conclusions are further condensed by using the threefold analytical process with appropriate rationale and theory, it is established as a conclusive axiomatic theorem.

*Notes: The process of constructing a theoretical formulation is defined . Every intellectual process of gathering information, analysing it and condensing it as dharana, dhyana, samadhi leading to samyama as the moment of realization of the true meaning, through intellectual deliberation to fit a basic axiomatic principle, is necessary. Or else it is deemed to be a premise or hypothetical statement*

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## SUTRA 5.

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### 5. Process of verification of detectable phenomenon.

प्रति विषय आध्यावसायो द्रष्टं त्रिविधं अनुमानम् आप्तयाम् ।

तल्लिङ्ग अलिङ्ग पूर्वकम् आप्तुतिर आप्तवचनंतु

प्रति	विषय	आध्यावसायो
prati	vishaya	adhyavasāyo
Reference	sensory	persistent

द्रष्टं	त्रिविधं	अनुमानम्	आप्तयाम्
drishtam	thrividham	anumānam	ākhyātam
perception	threefold	inference	define

तल्लिङ्ग	अलिङ्ग	पूर्वकम्
thallīṅga	alīṅga	pūrvakam
detectable	undetectable	source ( origin )

आप्तुतिर	आप्तवचनंतु
āpthaśrutir	āpthavacananthu
axiomatic data	axiomatic principle or theory

Meaning:

With reference to persistent continuous sensory perception of phenomenon there are three aspects of factual information with characteristics like (positive) detectable, (negative) undetectable, (neutral) original characteristics that can be measured, analysed and interpreted to establish an axiomatic theorem or principle.

*Notes: The theoretical approach to establishing a principle based on detectable phenomena depends in three ways as it can contain undetectable aspects as well as those at source as the origin of that event. Hence it requires verification with existing axiomatic principles before it is accepted as the correct observation, detected conclusion etc.*

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## SUTRA 6.

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### 6. Process Of Holistic Derivation Of Proof = Siddhi (= mental experience)

सामान्य अत अस्तु दृष्टा अतीन्द्रियाणाम् प्रतीतिर् |  
अनुमानात् तस्मात् अपि च सिद्धम् परोक्षं अप्त अगमात् सिद्धम् || ६००

सामान्य अत अस्तु  
sāmānya atha asthu  
Synchronised moving expansive

दृष्टा अतीन्द्रियाणाम् प्रतीतिर्  
drishtād atīndriyāṇām pratītir  
phenomenon imperceptible successful

अनुमानात् तस्मात् अपि च सिद्धम्  
anumānāt tasmād api ca siddham  
inference hence- also and axiomatic proof

परोक्षं अप्त अगमात् सिद्धम् ६  
paroksham apt agamāt siddham 6  
Experience mentally axiom deductive axiomatic proof

Meaning:

And in the case of phenomenon that is imperceptible, mobile, expansive and hence undetectable, inferential method using holistic, deductive, logical, verification technique to mentally experience phenomenon, is known as Siddhi.

Notes: The deeper principles of Sankhya are included in this theorem. The dynamic field that forms the substratum for all phenomena also includes the human mind as a dynamic entity within it following the same rules. Hence unobservable phenomena must be created in the mind based on those axiomatic concepts to experience it. By which process reality of the undetectable phenomena can be verified as a real experience in the mind.

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## SUTRA 7.

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### 7. The reason why manifestation may not be detected

अतिदूरात् सामीप्या इन्द्रियघातान् मनोऽन् अवस्थानात् ।  
सौक्ष्म्या व्यवधाना अभिभवात् समान अभिहार च

अतिदूरात्	सामीप्या	इन्द्रियघातान्
atidūrāt	sāmīpyād	indriyaghātān
Too faraway	too close	sensory obstruction

मनोऽन्	अवस्थानात्
manon	avasthānāt
mental	state

सौक्ष्म्या	व्यवधाना	अभिभवात् समान
saukshmyād	vyavadhānād	abhibhavāt samān
Subtleness	occultation	predominance

अभिहार	च
abhihāra	ca
camouflaging	etc.

Meaning:

Extremely far or near distances, mental and sensory inefficiencies, subtle or attenuated conditions, occultation

or eclipsing of the object, poor background contrast, camouflaging effect (are the causes of non detection or non measurement of phenomenon).

*Notes: The list of possible factors that can make phenomena undetectable by mere observation forms the caveat that must be taken into account before concluding that manifestation does not exist.*

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## SUTRA 8.

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### 8. The reason why the fundamental SUBSTRATUM is not detectable.

सौक्ष्म्यात् तदनुपलब्धिर्न अभवत् कायस्य तदुपलब्धिः ।

महादि तच्च कायस्य प्रकृति विरूपं स्वरूपं

॥

सौक्ष्म्यात् तदनुपलब्धिर्न अभवत्  
saukshamyāt tad anupalabdhir na abhavat  
Subtleness- hence non detection not non existence

कायस्य तदुपलब्धिः  
kāryatas tad upalabdhī:  
reaction therefore detection

महादि तच्च कायस्य  
mahad adi tat ca kāryam  
intense- source following also actions

प्रकृति विरूपं स्वरूपं  
prakṛti virūpam svarūpam  
oscillations harmonics fundamental

Meaning:

The non detectability (of the substratum) is due to the extremely attenuated reactions put out and not because it (substratum) does not exist. Only reactions are detectable. For when the reaction of the primary or first displacement takes place then a sequence of oscillations are detected that are either in its original form or

harmonics.

*Notes: This is an extremely important theorem. Space as the fundamental substratum is not detectable because the process of detection depends on time interval of reaction to some causal event. As will be shown in later theorems that time of reaction is extremely small as the causal interactions are in perpetual balance with the reactions and so no unbalanced interval is displayed. Hence space is not detectable though it forms the dynamic foundation for all phenomena*

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## SUTRA 9.

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### **9. Logical reasons why the SUBSTRATUM MUST exist if manifestation EXISTS.**

असं करणां उपादानं ग्राहणात् सर्वसंभवः ।  
अभवत् शक्तयः शक्यः करणात् कारणं भवति च साक्षात् ॥ ९ ॥

असं	करणां	उपादानं
asad	karanād	upādān
Illogical	action	material cause

ग्राहणात्	सर्वं	संभवः
grahanāth	sarva	sambhav
acceptance	all	possibility

अभवत्	शक्तयः	शक्यः
abhavat	śaktasya	śakya
non existing	ability	possible-act

करणात्	कारणं	भवति	च	साक्षात्
karanāt	kārana	bhava	ca	satkāryam
Cause	effect	existence	therefore	Law or axiom or rule

Meaning:

It is an error of logic to accept that continuous or all possible modes of action (manifestation) are possible without a physical cause; the ability to act in all possible ways must be due to the existence of a cause, therefore it becomes an axiomatic rule.

*Notes: Theoretically it is impossible to accept all modes manifestation or events are possible without a cause. The most rigorous logic compels the acceptance of fundamental substratum if observable phenomena exist. Since it is an axiomatic fact that phenomena exists it automatically proves that a substratum of space must exist even if it is not detectable. This principle of logical verification by axiomatic concepts does not exist in Physics and hence space as a vacuous void is accepted as a reality.*

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## SUTRA 10.

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### **10. Detection of manifestation is due to changes, the lack of which makes phenomenon undetectable.**

हेतुमत् अनियं अयापि सपि यम् अनेकम् अपितं लिंगम् ।  
 स अवयवं परतन्त्रं व्यक्तं विपरीतम् अव्यक्तं || १०००

हेतुमत्	अनियं	अयापि
hetumat	anityam	avyāpi
Effect	temporary	non-pervasive

सपि यम्	अनेकम्	अपितं	लिंगम्
sakriyam	anekam	āsritam	lingam
active	many	supportive	coherent potential

स	अवयवं	परतन्त्रं	व्यक्तं
sa	avayavam	paratantram	vyaktam
With	mass or body	dependant on	manifestation

विपरीतम्	अव्यक्तं
viparītam	avyaktam
reverse	unmanifest phenomenon

Meaning:

The caused and detectable effect of manifested phenomenon are relatively temporary; confined to limited region; proceed from action to action; resulting in a sequence of actions; and also becomes the cause of initiating further action; with coherent potential characteristics; has the quality of being substantial or with mass; as it is a resultant, so it is a secondary trait; and the unmanifest cannot be detected because of the inability

to discern such effects.

*Notes: Futher, logical and axiomatic proof is given that unless there are changes that create observable time varying intervals the phenomena becomes undetectable.*

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## SUTRA 11.

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### 11. Characteristics of the three states of phenomenal interaction. (GUNAS)

त्रि गुणं अविवेकि विषयः सामान्यं अचेतनं ऽसव धर्मि  
व्यक्तं तथा प्रधानं तं विपरीतस् तथा च पुमान्      || ११००

त्रि	गुणं	अविवेकि	विषयः
tri	gunam	aviveki	vishayah
Triple	vectors	undetectable	phenomenon;

सामान्यं	अचेतनं	ऽसव	धर्मि
sāmānyam	acetanam	prasava	dharmi
synchronised	inanimate or static	generation	natural law

व्यक्तं	तथा	प्रधानं	तं
vyaktam	tathā	pradhānam	tad
Manifest	onwards	primary force	and

विपरीतस्	तथा	च	पुमान्
viparītas	tathā	ca	pumān
reverse	likewise	and	nuclear region

Meaning:

The inability to discriminate between the triad of stressed states that form the dynamic connection is the cause of not detecting phenomenon in a synchronised, static or unmanifest state. The triplicity of dynamic forces that connect it, is a principle that applies to the first or primary intense state and the succeeding reactive states of manifestation and likewise to the nucleus which however is in the opposite state (non detectable state).



Notes: The interactive states necessarily have three modes of action as colliding, separating and radiating as a three part cycle. Inability to detect these intervals of change makes manifestation undetectable.

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## SUTRA 12.

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### 12. The qualities of the triad of forces that form the connection .

प्रीति अप्रीति विषाद आत्मकाः प्रकाश प्रवृत्ति नियमाथाद्य ।  
अप्योप्य अभिभव आप्य जनन मिथुन वृष्याव गुणाः

प्रीति	अप्रीति	विषाद	आत्मकाः
prīti	aprīti	vishād	ātmakāh
Buoyant	calm	despair	self

प्रकाश	प्रवृत्ति	नियमाथाद्य
prakāśa	pravritti	niyamārthāh
Manifest	interface	limit

अप्योप्य	अभिभव	आप्य	जनन	मिथुन
anyony	abhibhav	āśraya	janana	mithun
mutually	predominantly	interactive	creative	associative

वृष्याव	गुणाः
vṛityāśrava	gunāh
self-resonant quanta	vector

### Meaning

Just as the human being undergoes, when under stress, a three stage transfer from a state of buoyant feelings through a calm state to a state of utter despair; the three interactions of the Guna are from a state of free and mobile expansion through a balanced and resonant interface to a state of compact static contraction. As a result the three states are capable of mutually interacting to override or strengthen or weaken, one or both, at the expense of the remaining aspects; be creative or destructive as a whole; associate or join or pair or combine to form groups; and also exist by itself as self supporting resonant or dynamic entity.

Notes: The variety of interactive changes is defined and the three phase cycle of interaction is called Gunas.

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## SUTRA 13.

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### 13. Identification and defining of the three forces.

स॒त्त्वं लघु॑काशकम् इ॒ष्टं उप॑ आ॒ष्ट अ॒भकं॑ चलं च रजः ।

गु॒ वरणकं॑ एव तमः प्र॒दीपव॑ च अथ॒वृत्तिः॑ ॥ १३ ॥

स॒त्त्वं लघु॑ काशकम्  
Sathvam laghu prakāśakam  
radiant state swift intensely-energetic

इ॒ष्टं उप॑ आ॒ष्ट अ॒भकं॑  
Ishtam upa ashta ambhakam  
as required beyond eight orders of radiation-spectrum

चलं॑ च॒ रजः॑  
Chalam cha rajah  
shuttling between the transition force

गु॒ वरणकं॑ एव तमः  
guru varanakam eva thamah  
heavy enveloped as if nuclear inertial mass or force

प्र॒दीपव॑ च अथ॒ वृत्तिः॑  
pradīpava cha artho vritti  
Radiating is the motivation vortex or quanta

Meaning:

Satwa is the force which operates outward at the maximum speed with the required intensity and energy to

transmit the force beyond the level of the first octet of forces past the nuclear boundary that is in a fluidic or flexible state. Raja is the force in the transition region of seven oscillatory plus the first in the octet of forces; that shuttles inward or outward to transfer the forces from nuclear boundary to the expansive-radial boundary and vice-versa; Tama is the decelerating force acting inward forming the static nuclear enveloping boundary. Vrithi is the resultant force that is radiated in the form of a self-sustained vortex (particle) created by the permutations and combinations of the previous three levels of forces to transfer force or energy.

*Notes: Definitions of three phases of an interactive cycle that exists universally and always.*

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## SUTRA 14.

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### 14. Holistic logic can identify both manifest and unmanifest nature.

अविवेक्यादिः सिद्धं त्रैगुण्यात् तद्विपर्यया अभावात् ।  
कारण आत्मक गुणात् कायय अयत्तम् अपि सिद्धम् ॥ १४००

अविवेक्यादिः	सिद्धं	त्रैगुण्यात्
avivekyādih	siddham	traigunyāt
Non detection	by holistic analytical derivation	Tri-vector forces

तद्विपर्यया	अभावात्
tad viparyayā	abhavat
Such reverse	non-existing

कारण आत्मक	गुणात्
kārana āthmaka	gunathvāth
motive self	vector forces

कायय	अयत्तम्	अपि सिद्धम्
kāryasya	avyaktam	api siddham
effect	unmanifest	also holistic proof.

Meaning:

Through a process of holistic analytical derivation of proof it is proved that non detection or detection is due to the observer's inability or ability respectively to detect any or all of the three guna modes of exchange or transfer of forces. And the very process of Siddhi or 'holistic analytical derivation of proof' is itself due to the unmanifest state of the substratum reacting through the action of the gunas or three modes of transfer of forces by it's own inner motivation or potential or cause or interaction to manifest as energy, awareness or consciousness .

*Notes: The most important theorem to verify unmanifest phenomena intellectually based on axiomatic principles. Since detection is based on observable time interval the resonant and coherent states merge interactions thereby submerging the interval in super posed states that make it invisible. Hence intellectual means of derivation through Siddhi is necessary.*

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## SUTRA 15.

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**The result of a cyclic force is a natural waveform.**

भेदानां परिमाणात् समवयात् शक्तितः ऽवृत्तेऽव |  
कारण कायविभागादत् अविभागादत् वैवपय || १५००

भेदानां	परिमाणात्	समवयात्	शक्तितः	ऽवृत्तेऽव
hedānām	parimānāth	samanvayāt	śaktitah	pravritheśva
changing	value of measure	sequential	bonding	cyclic action

कारण	काय	विभागादत्	अविभागादत्	वैवपय
kārana	kārya	vibhāgādat	avibhāgādat	vaiśvarūpasy
Cause	effect	expanding	contracting	natural waveform

Meaning:

Cyclic interaction at the interface is due to a sequentially changing value that is due to acceleration or deceleration of a force. This cyclic action is the cause and effect, by turns, to expand and contract (rarefy and pressurise or decrease and increase density) to produce a waveform that is of a standard form in nature.

*Notes: It is the definition and description of a cyclic oscillatory state that creates the wave like movement and the vortex form .*

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## SUTRA 16.

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**A first change of phase or fluidic state occurs with changing force.**

कारणं अस्त्यव्यक्तं प्रवर्तते त्रिगुणतः समुदयाः च ।  
परिणामतः सलिलवत् प्रति प्रति गुण आश्रय विशेषात् ॥ १६००॥

कारणं	अस्त्यव्यक्तं	प्रवर्तते
Kāranam	astyavyaktam	pravartate
Motivating cause	diminishing	initiating

त्रिगुणतः	समुदयाः	च
trigunathah	samudayāh	cha
through Tri Guna action	interactively	and

परिणामतः	सलिलवत्	प्रति	प्रति
Parināmatah	salilavat	prati	prati
Change of state	like fluid	towards	again

गुण	आश्रय	विशेषात्
Guna	āśraya	viśeshāt
interactively	restful	distinctive phase

Meaning:

In an interactive process with a diminishing potential, the triple interactive state initiates a restful state of coherence or synchronised state and a transformation occurs ; a distinctive change of state, like that of vapour condensing to liquid, takes place when the inward going force is brought to a very synchronised or coherent or merged (therefore static ) state .

*Notes: The mode by which interactive states merge and the time interval becomes undetectable that causes a change of state from vapour with three degrees of axial freedom being reduced to two by merging along two axes to create the fluid state. As a visual example vapour condensing to liquid is given*

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## SUTRA 17.

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### 17. the second change of phase creates the solid or nuclear state.

संघात पर अथावात् िगुण आदि विपयथाा अधिाठानात् ।  
पुषो अित भोत् भावात् कैवय अथवृेच ॥ १७॥

संघात	पर	अथावात्
samghātha	para	arthatvāt
Aggregation	background	motivation for

िगुण	आदि	विपयथाा	अधिाठानात्
triguna	ādi	viparyayād	adhishtānāth
Triple-interaction	start	reversal of	source location

पुषो	अित	भोत्	भावात्
purusho	asti	bhoktra	bhāvāt
nucleus	resting	coherent	state

कैवय	अथ	वृेच
kaivalya	artha	pravritheścha
unhindered	potential cause of	oscillatory action

Meaning:

Aggregation, superposition, coherence or synchronizing, is the background motivation for initiating the three modes of interaction from the central or core location. The restful and coherent state thus created causes the reversal of the initiating states thereby causing the unhindered and continuing oscillatory state.

*Note: The most extraordinary definition of the core or nuclear state, which though in the apparently solid state it is only the coherent or merged or synchronised phase that makes it appear so. In this phase the freedom along all three axis is restricted because all act simultaneously which causes merging a superposing to create the coherent unified singular state. A solid state too is an oscillatory state but because the oscillations occur so close together it looks solid.*

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## SUTRA 18.

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### 18. Logical proof that the nucleus is a conglomerate entity.

जनन मरण कारणानां ऽतिनियमा ऽयुगपत् ऽवृत्तेषु ।  
पुंषु बहुवं सिद्धं त्रैगुण्य विपर्यया चैव ॥ १८००

जननमरणकारणानां  
janana marana kāranānām  
Creation dissolution activity

तिनियमा ऽयुगपत् ऽवृत्तेषु  
pratiniyamād ayugapat pravṛtteśv  
operating principle not at once oscillatory action

पुंषु बहुवं सिद्धं  
purusha bahutvam siddham  
nucleus plenitude logical proof-

त्रैगुण्य विपर्यया चैव  
traigunya viparyayā caiva  
triad of forces reverse- consequence

Meaning:

Since the causative action leading to aggregation and dissolution or creation and destruction are not simultaneous or instantaneous at the nuclear interface, the holistic logical conclusion is that there must be many nuclei or individual core components (purusha) and also because the reversal of interactions of the triad of forces (gunas) produce multiple types of phenomenon (whereas it should have been singular otherwise.)

*Note: In a later theorem the principle of holographic manifestation is derived. This theorem leads up to that concept by confirming that the nucleus is not a single entity but is based on the super positioning of interactive states that creates a dense coherent singular form .*

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## SUTRA 19.

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### 19. The complex nuclear state forms the background for manifestation of phenomenon.

तस्मात् च विपयाक्षात् सिद्धं साक्षिण्यमयं पुंषयः ।

कैवलयम् माध्यम्यं दृष्टवम् अकृतृभावात्      ॥ १९०० ॥

तस्मात्	च	विपयाक्षात्	सिद्धं
tasmāt	ca	viparyāsāt	siddham
Therefore	and	conversely	holistic proof

साक्षिण्यमयं	पुंषयः
sākshityamasya	purushasya
passive state	nuclear region

कैवलयम्	माध्यम्यं
kaivalyam	mādhyastyam
unhindered	neutral

दृष्टवम्	अकृतृभावात्
drashtavyam	akartrabhāvāt
reference for detection	unmanifest state

Meaning:

From previous sutras, the conversely inferential holistic conclusion is that the nuclear state forms the passive background with particulate or inertial mass, which forms a detectable state of reference in a neutral, unhindered and un-manifest state.

*Notes: The nuclear state forms the core to sustain the other two forms of manifest states axiomatically it is*



necessary to have a stable, passive and dense state to support phenomena that change its forms in one or two ways.

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## SUTRA 20.

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### 20. The state of sustained interaction is a state of balance

तस्मात् तत् संयोगात् अचेतनं चेणावदत् इव लिङ्गं ।  
गुणकतृवे च तथा कत् एव भवत्यु उदासीनः      ॥ २० ॥

तस्मात्	तत्	संयोगात्
tasmāt	thath	samyogāth
therefore	that	association

अचेतनं	चेणावदत्	इव	लिङ्गं
acetanam	chennāvadat	iva	lingam
static	dynamic	as if	characterised

गुणकतृवे	च	तथा
gunakartrthva	ca	tathā
action of gunas	and	thus

कत्	एव	भवत्यु	उदासीनः
Karth	eva	bhavatyu	udāsīnah
Wound down	as if	activity	neutralised.

Meaning:

Because of the proximity of the static and dynamic states the static state seems dynamic and as though the action of the gunas were brought to a standstill  
The dynamic seems to behave in a neutral mode that maintains a balance.

Note: The core seems static and the boundary seems active but being close each seems to act in the opposite way. This is the explanation when oscillatory activity occurs simultaneously for only then a balance state of the dynamic phase can continue.

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## SUTRA 21.

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### 21. Measurement or detection of phenomenon at the fundamental level.

पु०ष०य दश०न्न अथ०कै०व०य अथ०तथा ०धान०य |  
प०ग०व् अ०ध०व० उ०भ०योर् अपि सं०यो०गस् ततः कृतः स०ग० || २१००

पु०ष०य	दश०न्न	अथ०	कै०व०य	अथ०
purushasya	darśan	artha	kaivaly	artha
nuclear state	detection	potential	unhindered	potential

तथा	०धान०य
tathā	pradhānasya
therefore	fundamental manifested state

प०ग०व्	अ०ध०व०	उ०भ०योर्	अपि
pangav	andhavad	ubhayor	api
Lame	blind	interdependance	similarly

सं०यो०गस्	ततः	कृतः	स०ग०
samyogas	tata	krithah	sarga
Combination	thus	proceeds	manifestation

Meaning:

Fundamental measurement of phenomenon references nucleus in an unhindered and synchronised state. Therefore the synchronised nuclear state provides the basic background to detect or measure the first, (primary or fundamental) active (manifested) state as a comparative or relative difference. Manifestation of phenomena proceeds on the principle of fulfilling the need to maintain a balance, like when a blind man and lame man team

up, to behave normally and effectively. From this combination all manifested phenomena proceeds.

*Note: Relativistic principle is involved in the detection process. Unless a comparison is made with reference to a stable or static state the observation would not convey any meaningful conclusion. Hence the nuclear Purusha state is the eternal stable frame of reference for all detection or measurement processes.*

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## SUTRA 22.

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### 22. Mathematical derivation of the dynamic selfsimilar state.

ऽकृतेर् महं अत अतो अहंकारः तमा गणस् च षोडशकः |  
तमा अपि षोडशक अत् पाचयः पाचभूतानि || २२ ||

ऽकृतेर्	महं	अत	अतो
prakrithar	maham	asth	atho
Oscillatory	intense force	expanding	continuously active

अहंकारः	तमा	गणस्	च	षोडशकः
ahankārah	tasmād	ganas	cha	shodaśakah
self acting	in this way	calculated	and	sixteenth

तमा	अपि	षोडशक	अत्	पाचयः
tasmād	api	shodaśak	ath	pañcabhya
in this way	also	sixteen	binds	fifth power

पाचभूतानि  
pañcabhūtāni  
5 levels of manifestation.

Meaning:

By the action of the primary force in the self sustaining oscillatory state an intense expanding force is radiated continuously at a calculated value that is at the sixteenth power of the primary value and in a progressive series, it is incremented through sixteen levels that binds or condenses through five orders into five sets of manifested phenomenon.

*Note: This extraordinary theorem gives the axiomatic reason why there are five levels of phenomenal states as solid, freezing, liquid, evaporation and gas phases. The intense acceleration of the self sustained oscillatory state expands continuously and its value can be only calculated as it is in the simultaneous oscillatory state and the sixteen orders condenses or binds into five levels of manifested phenomena as each level needs 3 orders to maintain its independent volumetric state as a distinct entity.*

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## SUTRA 23.

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### 23. Stress by axiomatic mathematical logic or natural law.

अवसायो बुद्धिर् धमो ज्ञानं विराग ऐश्वर्यम् ।  
सात्त्विकं एतत् रूपं तामसम् अस्मत् विपर्ययम् ॥ २३००॥

अवसायो	बुद्धिर्	धमो
adhyavasāyo	buddhir	dharmo
constant stress	potential	axiomatic law

ज्ञानं	विराग	ऐश्वर्यम्
jñānam	virāg	eaiśvāryam
static potential	phase-change	acceleration

सात्त्विकं	एतत्	रूपं
sātvikam	etad	rupam
expansive	thus	volume or form

तामसम्	अस्मत्	विपर्ययम्
thāmasam	asmad	viparyastam
Contractive	therefore	reverse

Meaning:

Defined by axiomatic process, any constant and continuing stress as the potential in the simultaneous or static state, undergoes a phase change, acceleration is produced by expansion of the volumetric form. The reverse process when acceleration reduces and undergoes a phase change it attains the compressed state of continuing stress as a potential in the static state.

*Note: An extraordinary theorem that defines through axiomatic rules that only a constant and continuing state*

of stress creates the potential state. The change from that state through expansion creates the acceleration of those stresses into an increasing volumetric form. When this expanded volumetric form is compressed by the same stresses acting in the reverse, it compresses and when that is continued and becomes constant it becomes a potential in the simultaneous state of compression. In other words change in the state of stresses creates the potential or accelerative states as a change in the volumetric form as either in compression or in expansion mode.

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## SUTRA 24.

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### 24. Mathematical description of internal field force as a spectrum.

अभिमानो अहंकारः तन्मात्रं द्विविधः प्रवर्तते राग् ।  
एकादशकस् च गणस् तन्मात्रः पञ्चकञ्चैव            || २४०० ||

अभिमानो	अहंकारः	तन्मात्रं
abhimāno	ahankārah	tasmād
self-potential	self-action	thus

द्विविधः	प्रवर्तते	राग्
dvidvidhah	pravartate	rāg
twofold way	initiate action	spectrum

एकादशकस् च गणस्
ekādaśakas ca ganas
elevenfold and calculated

तन्मात्रः	पञ्चकञ्चैव
tanmātrah	pañcakaścaiva
field force	in powers of five

Meaning:

Self-potential, as compressed stresses in the simultaneous state and self-action, as the expansion due to accelerating stresses, form the dual mode of initiating an oscillatory state that creates the spectrum of stresses forming the field force, which accelerate and decelerate as an alternating wave form. Since the stresses are in the simultaneous state forming the self potential, only through calculations, by using the axiomatic Dharmic law, the value of the self potential can be arrived at as eleven orders thus leaving five orders forming each set, from the sixteen orders.

*Note: This theorem defines the spectrum of stresses radiated in the expanding mode referred to in Sutra 23. This is an axiomatic derivation of the electromagnetic field force in space. The sixteen orders of stress levels released (Sutra 23) in the expanding form must polarize into two sets of 8 orders in each alternating phase of*



and the expansive mode creates the spinning vortex states that radiates. This theorem leads to the mechanism that creates the quantum of stresses that transmigrates across space.

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## SUTRA 26.

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### 26. Efferent and afferent sensory systems.

बुद्धि इन्द्रिय अणि चक्षुः श्रोत्रं श्रान रसनं पश्यान् आख्यानि ।  
वाक् पाणि पाद पायु पथान् कर्मन्द्रियाण्याहुः ॥ २५००॥

बुद्धिइन्द्रिय                      अणि    चक्षुः  
buddhindriya                      ani    chaksus  
Input Sensory responses    are    seeing

श्रोत्रं    श्रान    रसनं    पश्यान्    आख्यानि  
śrotra    ghrāna    rasana    sparś    ākhyāni  
hearing    smelling    tasting    touching    defined

वाक्                      पाणि                      पाद  
vāk                      pāni                      pāda  
vocalizing                      handling                      walking

पायुः                      पथान्  
pāyu                      pasthān  
Expelling                      regenerating

कर्मन्द्रियाण्याहुः  
karmendriyānyāhukyu  
output action responses defined

Meaning:

Efferent or input sensory responses are seeing with light, hearing with sound, smelling odours, tasting chemical qualities and touching physical states through contact are defined. The afferent output action responses are defined as communicating, manipulating, moving, expelling and regenerating.

*Note: This Sutra lays down a principle though the efferent or five input sensory systems that is common to all living organisms. But the response is in many ways and is applicable to all the categories of activities corresponding to the organs listed by functions talking, eating, manipulating, walking or moving, excretory functions and reproductive activities.*

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## SUTRA 27.

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### 27. Interactions in the sensory systems.

उभयात्मकं अपि मनः संकल्पकं इन्द्रियं च साधयाम् ।  
गुणपरिणाम विशेषान् नानात्वम् बाह्य भेदाच्च ॥ २७००॥

उभयात्मकं	अपि	मनः
Ubhayātmakam	atra	manah
Duality in internal functions	are a part of	cerebral system

संकल्पकं	इन्द्रियं	च	साधयाम्
Sankalpakam	indriyam	ca	sādharmyāt
Autonomous control of	senses	hence	identical to

गुणपरिणाम	विशेषान्
gunaparināma	viśeshān
Interactive transformation by Gunas	with specific output

नानात्वम्	बाह्य	भेदाच्च
nānātvam	bāhya	bhedācca
Variations are due to	responsive	combinations

Meaning:

The cerebral system (as mind) is capable of processing both the efferent or incoming input sensory information and afferent or outgoing action oriented outputs and as it follows the Guna principle of interactive transformations, it can produce a specific output despite the diversity in responses created by the permutations and combinations of the sensory inputs and the external variation in the responses.

*Note: This Sutra explains the process of multiple processing due to the variety of inputs occurring at the same time. The selective process of multiplexing inputs and outputs depends on interactive states as explained in the Guna definitions.*



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## SUTRA 28.

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### 28. The five levels of vrithi activities.

शब्दादिषु पञ्चानाम् अलोचनमात्रमिष्यते वृत्तिः ।  
वचन अदान विहरणोत्सगान्दाः च पञ्चानाम् ॥ १८००॥

शब्दादिषु पञ्चानाम्

śabdādīṣhu pañcānām  
From sound onwards sequence of five

अलोचनमात्रमिष्यते

alochanamātramīṣyate  
Observable measure of action

वृत्तिः

vṛttih  
vortex or quantum

वचन

vacan  
Oscillatory

अदान

adāna  
interactive

विहरणोत्

viharanoth  
transporting

सगान्दाः

sargāndāh

च

ca

पञ्चानाम्

pañcānām

Radiation creation are sequence of five .

Meaning:

The five types of sensory input signals are activated by discrete quantum of forces and it results in five categories of output as oscillatory, interactive, transporting, radiating and creative activities.

*Notes: The principle of how the discrete vortices or quanta progressively create a sequence of levels of reactions that display the spectrum of active efferent responses from the sensory organs to the afferent responses of the organs of action in all living states. The multiplexing of sensory inputs and outputs are explained as five categories of vortex levels on an incremental basis. Like speech is an oscillatory reaction, breathing or digestion or circulatory systems are interactive states of a dual nature. Transporting or moving or transmigration is a higher order of vortex level. Finally radiation or independent transport of a quantum, as a Vikharo function.*

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## SUTRA 29.

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### 29. Definition of self similar internal activity and radiation

ॐव लखॐ ॐयं वृॐस् ॐयॐय स ॐषा भवति असामाॐया ।  
सामाॐय करण वृॐः ॐण आॐया वा यवः पॐच      ॥ २९ ॥

ॐव लखॐ ॐयं                      वृॐस्  
sva lakhakshanyam                      vrithis  
self -similarity (definition)      cyclic-vortex (quanta or photon)

ॐयॐय      स ॐषा भवति                      असामाॐया  
trayasya      sa evā bhavati                      asāmānyā  
third power      as if moving together      non synchronously

सामाॐय      करण      वृॐः  
sāmānya      karana      vrithih:  
coherently      acting      cyclic vortex activity

ॐण      आॐया      वा      यवः      पॐच  
prāna      ādyā      vā      yavah:      pañca  
energy source of      radiation      unit measure      fifth-power.

Meaning:

The cyclic vortex functions on self similar principles up to the third power, is non-synchronous, and yet interacts internally together in an extraordinary way. But in the synchronous accelerated state at the fifth power it becomes a fundamental unit of energy radiation.

*Note: The principle of the formation of the vortex, quanta or photon is derived in detail. The vortex can be formed as volumetric state only at the third power or cubic state when it moves together but not as a coherent vortex. However when it becomes a coherently active state at the fifth power, it becomes a quantum of radiating energy. It is in fact an extraordinary equation for Max Planck also derived the quanta or photon state that became detectable at the fifth power of wavelength. It shows an extraordinary intellectual insight into nature's functioning. This theorem derives a key interactive feature when an oscillatory interactive vortex in a balanced volumetric state of three orders turns into an accelerative quantum of radiation that becomes a self supporting*

## SUTRA 30.

### 30. Definition of a cyclic vortex and a spherical harmonic oscillator.

युगपच् चतुष्टयं तु वृष्टिः क्रमश्च तस्य निदिष्टा ।  
दृष्टे तथापि अदृष्टे त्रयस्य तत्पूर्विका वृष्टिः ॥ ३० ॥

युगपच्	चतुष्टयं	तु वृष्टिः
yugapac	catushstasya	tu vrithih
Instantaneous cycle	fourth power	applies to cyclic-vortex .

क्रमश्च	तस्य	निदिष्टा
kramaśas	ca tasya	nirdishtā
sequential	consequent to which	detection, (specified, ascertained)

दृष्टे	तथापि	अदृष्टे
drishte	tathāpi	adrishte
manifested	similarly in the case of	unmanifest

त्रयस्य	तत्पूर्विका	वृष्टिः
trayasya	tatpūrvikā	vrithih
third power	Source or original	cyclic-vortex

Meaning:

When the oscillatory cycle count in all directions acts simultaneously or synchronously and is raised to the 4<sup>th</sup> power, a cyclic self-supporting and transmigrating Vrithi (vortex or quanta) is formed. When it acts non-synchronously or sequentially, it becomes detectable and measurable, with a degree of certainty and is thus defined. In the initiating state prior to the above, when the oscillatory count reaches the power of three and is synchronised and acts simultaneously in all directions, it is in a self supporting harmonic oscillatory state but is not detectable or observable in both the manifest and unmanifest states.

*Note: A cardinal theorem that defines when, how and why a cyclic vortex becomes detectable from its previous undetectable state. The definition implies how a Vrithi or vortex at third power is undetectable but as it changes to the fourth power it forms into a sequentially moving or transmigrating vortex that can be detected and measured. (The neutrino in Physics)*

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## SUTRA 31.

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### **31. The cyclic vortex is kept in continuous oscillation only by its internal potential.**

स्वां स्वाम् प्रति पद्यन्ते परस्पर अकूत हेतुकं वृथिम् ।  
पुषाथएव हेतुर् न केनचित् कायस्ते करणम्                      || ३१ ||

स्वां	स्वाम्	प्रति	पद्यन्ते
svām	svām	prati	padyanṭe
self-similar	self-organised	towards	all the way to the end

परस्पर	अकूत	हेतुकं	वृथिम्
paraspar	akūta	hetukam	vrithim
mutual interactive exchange	selfmotivated	impulse	cyclic vortex

पुषाथ	एव	हेतुर्
purushārth	eva	hetur
nuclear potential	only	motivating impulse

न केनचित्	कायस्ते	करणम्
na kenacita	kāryate	karanam
no other	motivating	potential cause

Meaning:

The cyclic vortex or spherical oscillator is kept in continuous interactive exchange up to the very end (limit) only by the nuclear or core potential developed by the mutual exchange of internally motivated and triggered self similar and self organized impulse or force and there is no other external potential cause.

*Notes: The oscillatory state remains in perpetual interactive state by a process of exchange of time in two modes. Self similar is a simultaneous state and self organized is a harmonic state. But the key reason by which a self potential is created is the reduction in oscillatory count at the core by merging into a dense state of simultaneous activity when all the oscillations act at the same time within a cycle. The nuclear core in the merged simultaneous state presents a negative potential of oscillatory counts reduced to single cyclic count towards which higher counts migrate. That is the only reason for an inward acceleration. This is the gravitational inward acceleration that occurs in all bodies with a density greater than 2. There is no other cause*

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## SUTRA 32.

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### 32. The static and kinetic potential limits.

करणं ऽयोदशविधम् तऽ आहरण धारण ऽकाशकरम् ।  
कायऽच तऽय दशधा आहायऽधायऽ ऽकाऽयं || ३२ ||

करणं ऽयोदशविधम्  
Karanam trayodaśavidham  
Potential - cause thirteenth power

तऽ आहरण धारण ऽकाशकरम्  
tad āharana dhārana prakāśakaram  
in which it accelerates super positioning radiates

कायऽ च तऽय दशधा  
kārya ca tasya daśadhā  
Kinetic-activity and consequently is the tenth power

आहायऽ धायऽ ऽकाऽयं  
Āhāryah dhāryam prakāśyam  
Acceleration super positioning radiation.

Meaning:

The potential rises to the 13<sup>th</sup>. Power to accelerate superpose and radiate. Consequently the kinetic potential rises to the 10<sup>th</sup> power to accelerate, superpose and radiate.

*Notes: The precise identification of the numerical value of the interactive is unparalleled in present scientific derivations in Physics. The stable value of 2 cubed = 8 is raised by the self similar value of 1+x where x = 0.618 raises 8 to 13<sup>th</sup> power and decreasing the original state of 3 the incremental value is 10. This is the increase in acceleration that creates the radiative state at 13<sup>th</sup> power index and when not radiative it is also the cause of any form of acceleration including gravity. This is a landmark theorem in Physics.*

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## SUTRA 33.

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### 33. The internal and external potential limits.

अतः करणं त्रिविधं दशधा बाह्यं त्रयय विषयायम् ।  
सांप्रतकालम् बाह्यं त्रिकालम् अतन्तरं करणम्      || ३३ ||

अतः	करणं	त्रिविधं
Anthah	karanam	thrividham
The limit of	potential	third power

दशधा	बाह्यं	त्रयय	विषयायम्
daśadhā	bāhyam	trayasya	vishayākhyam
Tenth power	external	triad	detectable defined

सांप्रत	कालम्	बाह्यं
sāmprata	kālam	bāhyam
Present sequential	time	external

त्रिकालम्	अतन्तरं	करणम्
trikālam	abhyantaram	karanam
Third power of time	internal	bonding

Meaning:

The limit of bonding potential is at the third power. The externalizing factor is defined as 10<sup>th</sup> power and the third power (from the 13 orders) is defined as the detectable state. If the 10<sup>th</sup> power exists externally as present time the third power of time forms the internal bonding force.

*Notes: As the 13<sup>th</sup> orders from the previous theorem forms the limit this theorem defines the two states of the three orders when it transmigrates outward and inward. Outward the 10<sup>th</sup> order externalizes the third order as a detectable state. Inward the 10<sup>th</sup> order is in the present state while the third order internally causes the bonding action that sustains the vortex or Vrithi. The important point being emphasized is the third order is the volumetric state that expands and radiate and hence becomes detectable. Whereas in the inward direction the same volumetric third order becomes a compressive state that binds itself into a dense and centered state. An expanding volume radiates while a contracting volume binds into a dense state. This theorem is an extraordinary derivation of the holographic state that has all the qualities of a real phenomena as detected.*

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## SUTRA 34.

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### 34. The potential to act is at the 5<sup>th</sup>.power level.

बुद्धि इन्द्रियाणि तेषाम् पञ्च विशेष अविशेषयाणि ।  
वाग्भवति शब्दविषया शेषाणि तु पञ्चविषयाणि ॥३४॥

बुद्धि	इन्द्रियाणि	तेषाम्
Buddhi	indriyāni	teshām
Self-action or will or motive	sensory	spectrum

पञ्च	विशेष	अविशेषयाणि
Pañca	viśesha	aviśeshayāni
Five	Specific activity	sensory signals

वाग्भवति	शब्दविषया
vāgbhavati	śabdaviśayā
Speech forms relates to	sound vibrations

शेषाणि	तु	पञ्चविषयाणि
śeshāni	tu	pañcaviśayāni
Remaining	concerns	all five sensory responses

Meaning:

The will or internal potential to act comprises a spectrum of five sensory responses of both types as sensing and reacting. Speech forms are related to sound vibrations while the remaining is related to the entire five sensory response spectrums.

*Notes: While it may seem to be only referring to human sensory responses, objectivity requires that these definitions apply to the entire spectrum of manifestation like animals, birds, insects, plants and all independent entities that have the analytical and organizing power to use this potential.*

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## SUTRA 35.

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### 35. The formation of a basic field is determined by the 3<sup>rd</sup>. order damping action.

स अतः करण बुधिः सव विषयम् अवगाहते यमात् ।  
तमात् िविधं करणं वारि वाराणि शेषाणि                      || ३५ ||

स	अतः	करण	बुधिः
sa	antah	karana	buddhih
At	limit	bond	coherence state

सव	विषयम्	अवगाहते	यमात्
Sarvah	vishayam	avagāhate	yasmāt
All	sensory signals	plunges	consequently

तमात्	िविधं	करणं	वारि
tasmāt	trividham	karanam	dvāri
Therefore	third power	bonding	medium

वाराणि	शेषाणि
dvārāni	śeshāni
User of medium	the remaining powers

Meaning:

At the point when all measurable interactions plunge to its limit and form a coherent bond it is a, measure of the effort involved and therefore the third power of this bond forms the base or medium, the remaining powers of interaction use this as medium.

*Notes: The field is a real medium built up of elemental dynamic states following the rules of volumetric form and time. The point or center of a special form must be created by a dynamic activity. When all the active states gravitate inwards towards a centre these compress into a dense form of the third order. These third order elemental point form becomes the medium to create forms of other orders of activity or interaction. It is a fundamental theorem defining the parameters that make it accountable, detectable and usable.*



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## SUTRA 36.

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### 36. Decay of radiated phenomenon.

एते ऽदीप कल्पाः परस्पर विलक्षणा गुणविशेषाः ।  
कृत्स्नं पुंषयाथकाय बुद्धौ ऽय् अक्ष अन्ति ॥ ३६ ॥

एते	ऽदीप	कल्पाः
yethe	pradīpa	kalpāh
Spectrum	light radiation	process

परस्पर	विलक्षणा	गुणविशेषाः
paraspara	vilakshanā	gunaviśeshāh
Mutual	complex	guna interaction

कृत्स्नं	पुंषयाथ	काय
kritsnam	purushasyārtham	prakāśya
totally	purusha potential	manifest

बुद्धौ	ऽय्	अक्ष	अन्ति
buddhau	praya	acch	anthi
coherent	action	controlled	clearly end

Meaning:

Spectrum of light radiation transmission process is a complex and mutually interactive guna interactive exchange sequence and it is totally controlled by the Purusha potential at the core and it is the only coherent motivating factor clearly till the end of its transmigration limit

*Notes: Landmark theorem on the radiation of light. The potential of the nuclear core or Purusha potential is the motivating cause of the interactive Guna exchange sequence which initiates the transmigration of Light radiation and the same potential sustains the transmigration process till the end of its limit. The logic here is that the interaction in the medium continues to create the light radiation process from point to point till it reaches the end and is unlike the concept in Physics.*

## SUTRA 37.

### 37. Extraction of potential energy from the Purusha domain.

सर्वव्याप्यभोग यस्मात् पुष्य साधयति बुद्धिः ।  
सैव च विशिन् इष्टि पुनः प्रधान पुष्यांतरं सूक्ष्मं ॥ ३७ ॥

सर्व	व्याप्य	भोग	यस्मात्
sarvam	pratyapa	bhoga	yasmāt
Comprehensive	extraordinary	extract	in this way

पुष्य	साधयति	बुद्धिः
purushasya	sādhayati	buddhih
Purushapotential	attainable	coherent potential

सैव	च	विशिन्	इष्टि	पुनः
saiva	ca	viśin	ishti	punah
With exact	and	precise	trigger input	repeated

प्रधान	पुष्यांतरं	सूक्ष्मं
pradhān	purushāntaram	sūkshamam
primary interactions	Inside the Purusha	minute

Meaning:

A comprehensive and extraordinary use can be made in the following way. The potential of the Purusha can be attained from the minute coherent state hidden inside the Purusha by repeated precisely triggered inputs to initiate the primary interactions.

*Notes: This theorem is an extraordinary derivation that describes the process of extracting energy from space by triggering input of energy to create primary or large scale interactions that would yield a large amount of energy that could be used. It is a process that is similar to nuclear fission but this is applies to unrestrained space.(The Rigveda first sloka contains this theorem with 25 digit numerical proof)*

## SUTRA 38.

### 38. Classification of activity of Virthi and elements

तन्मात्राणि अविशेषात्तेषु भूतानि पञ्च पञ्चमयः ।  
एते ऋता विशेषाः शांता घोरास् च मूढाश्च        || ३८ ||

तन्मात्राणि	अविशेषे	षात्तेषु
tanmātrāṇi	aviśeṣha	āstebhyo
Self-generated vortex	sequential	eight powers

भूतानि	पञ्च	पञ्चमयः
bhūtāni	pañca	pañcabhyah
elemental matter	five	fifth power

एते	ऋता	विशेषाः
yete	smrithā	viśeshāh
spectrum	law or formula	derived values

शांता	घोरास्	च	मूढाश्च
śāntā	ghorās	ca	mūdhāśca
Synchronised	Non Synchronised	and	Superposed

Meaning:

The self-generated vortex or vrithi or perpetual harmonic oscillator has a non synchronised or sequential level of activity up to the eight powers. While elemental matter, with mass, are formed at five levels up to the fifth power. The spectrum of activities as logically derived establishes the formulation covering all interactive states, defined as synchronised, non synchronised and superposed or coherent.

*Notes: This is an axiomatic numerical derivation giving range of values in powers and is derived by an extraordinary stretch of logic based on self similarity from the previous theorems. Ten cycles being the basic unit simultaneous interactions rise by powers and the eight orders is from that derivation. The half of eight being four creates equal states. Then on initiating interactive transmigration the  $4 - 1 = 3$  and the  $4 + 1 = 5$  as two polarized groups as third order interactions and 5<sup>th</sup> order interactions form the five levels of matter density or mass. As Vrithi is basic it changes to higher density levels as Vikharo as photons, Vikrithi as Leptons, Prakrithi as Hadrons, Mahad as Quarks and Purusha as the central core of the blackhole state.*

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## SUTRA 39.

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### 39. Genetic and Molecular code.

सूक्ष्मा मातापितृजाः सह प्रभूतैस् त्रिधा विशेषाः ऋयुः ।  
सूक्ष्माण्येषां नियता मातापितृजा निवर्तन्ते ॥ ३९००॥

सूक्ष्मा	मातापितृजाः	सह	प्रभूतैस्
sūkshamā	mātāpitrjāh	saha	prabhūtais
Field	molecular /genetic	sustained	energy source

त्रिधा	विशेषाः	ऋयुः
tridhā	viśeshāsha	syuh
triple	interactive	bond

सूक्ष्माण्येषां	नियता
sūkshamāsteshām	niyatā
Mobile field	constant

मातापितृजा	निवर्तन्ते
mātāpitrjā	nivartante
molecular	cyclic or periodic

Meaning:

The field sustained by the fundamental source of energy bonds into three organic genetic or molecular species. The mobile field is constant and controlled and the molecular / genetic states of three categories are cyclic or periodic.

*Notes: The above theorem identifies the break from the field state to the combinations or group formations as molecules from atoms or molecules to genetic states and so on. The field state is a uniform sea of identical components that interact in the simultaneous state but are not manifest but when groups are formed these have distinct interactive states that are identifiable in a periodic or cyclic manner . The reference is the Guna interactive states that have the three- time bound categories depicting different forms.*

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## SUTRA 40.

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### 40. Linga state as coherent and superposed oscillations.

पूर्वम् पन्नं असक्तं नियतम् महदादि सूक्ष्म पयन्तम् ।  
संसरति निरूप भोगम् भावैर् अधिवासितं लिङ्गम् ॥ ४०॥

पूर्वम्	पन्नं	असक्तं	नियतम्
Pūrvot	pannam	asaktam	niyatam
Source	fallen	weak	subdued

महदादि	सूक्ष्म	पयन्तम्
mahadādi	sūkshama	paryantam
From dense	to the expansive field	upto the limit ing boundary

संसरति	निरूप	भोगम्
sansarati	nirūpa	bhogam
spectrum	maximum	absorption

भावैर्	अधिवासितं	लिङ्गम्
Bhāvair	adhivāsitam	lingam
Volumetric forms	superpositioning	coherent mass

Meaning;

Static mass states, as coherent and simultaneous, are created by maximally absorbing and super positioning the entire spectrum of vibratory or oscillatory states, from the largest and strongest to the (limit) finest, minutest kinetic charged states.

*Notes: The theorem defines dense massive inert and inactive states that seem to be in a static state comprises superposed interactive volumes from the limiting boundary to inert low potential source at centre formed into an absorbed and coherent form that is defined as the lingam.*

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## SUTRA 41.

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### 41. Definition of manifestation as a holographic state .

चि॒त्तं यथा अ॒यम् ऋ॒ते स्था॒वाधि॒यो वि॒ना यथा छाया ।  
तद॒वद॒ वि॒ना वि॒शेषै॒र् न ति॒ष्ठति॒ निरा॒यं लि॒ङ्गम्            ॥ ४१॥

चि॒त्तं	यथा	अ॒यम्	ऋ॒ते
chithram	yathā	aśrayam	chitrathe
Picture	for instance	support	framework

स्था॒वाधि॒यो	वि॒ना	यथा	छाया
sthānvādhibhyo	vinā	yathā	chāyā
post	without	for instance	shadow

तद॒वद॒	वि॒ना	वि॒शेषै॒र्
tadvad	vinā	viśeshair
so far	without	specific

न	ति॒ष्ठति	नि॒रा॒यं	लि॒ङ्गम्
na	thishtathathi	nirāśrayam	lingam
not	as required	without resting place	coherent state

Meaning:

Just as it is not possible to either present a picture without a supporting base or cast a shadow without an appropriate post, so also it is impossible to have the synchronised and super positioned dense coherent state without the required supportive base.

*Notes: Definition of a holographic state is shown to require a supporting base or structure in an allegorical mode of a picture or shadow needing a canvas or a post respectively. The dense coherent state of simultaneous interactions merging to create that form must have basic supports which provide the proof for the substratum of space to be of a specific or substantial object which negated the idea of space being devoid of qualities.*

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## SUTRA 42.

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### 42. The coherent state provides attracting potential to build up mass.

पुष अथहेतु कं इदं निमि नैम्-इक सगेन ।  
तेर् विभुत् वयोगान् नटव व्यवतिठते लिगम् ॥ ४२॥

पुष	अथ	हेतु	कं
purusha	artha	hetu	kam
nucleus	potential	motivating	attraction

इदं	निमि	नैम्-इक	सगेन
idam	nimitta	naim-ittika	prasangena
To this	target	circumferentially	surface attachment

तेर्	विभुत्	वयोगान्
prakrater	vibhut	vayogān
oscillatory action	strongly	resonant

नटव	व्यवतिठते	लिगम्
natavad	vyavatithishtathe	lingam
dance like	potential exchange	coherent mass

Meaning:

The synchronised and coherent state of the nuclear core forms the target potential to attract the oscillatory interactions to synchronize and superposition itself circumferentially, simultaneously, similar to the movements in a dance, which increases and strengthens resonant state of the interactions .

*Notes: This theorem defines the process of acquiring a coherent state as being due to the state of nucleus, which creates the potential to draw inward or attract the oscillatory interactive states to adhere to the surface circumferentially in a harmonic and resonant state that exchanges its activity to form and be absorbed by the nuclear passive or static state. The nucleus, though formed by absorbing the interactive states, because it attains a coherent state by absorbing the activities, it creates a low potential or unitary count state towards which the active states get drawn to it and gets absorbed.*

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## SUTRA 43.

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### 43. Conditions under which the axiomatic laws of interaction are certain.

सांसिद्धिकास् च भावाः प्राकृतिका वैकृतास् च धर्माद्याः ।

दृष्टाः करण आश्रयिणः कार्याश्रयिणश्च कललाद्याः ॥ ४३॥

सांसिद्धिकास् च भावाः  
Sāmsiddhikās ca bhāvām  
harmonic resonance is the dynamic state

प्राकृतिका वैकृतास् च धर्माद्याः  
prākritikā vaikritās ca dharmādyām  
Self-Oscillation to acceleration are source of axiomatic laws

दृष्टाः करण आश्रयिणः  
drishtah karana āśrayinah  
Detecting activity at resting place

कार्याश्रयिणश्च कललाद्याः  
kāryā śrayinaśca kalalādyāh  
Action at rest point start of time cycle count

Meaning:

The derivation of axiomatic laws of harmonic resonant action, are from the state when the dynamic interactive state changes from perfect resonance to an accelerative state. The starting point or start of time-cycle-period count measurement commences when the action is in a state of relative rest for detection is only possible when activity cycle is at a restful state. The count will be certain and accurate if it is measured at this point.

*Note: The derivation of a mathematical formula or axiomatic law of a dynamic oscillatory state is dependent on the ability to detect the change from the harmonic oscillatory state to the accelerative state. Detection of that activity is only possible during its state of relative rest from which point the start of the cycle count can commence. A pendulum count must start when it changes direction at the end of its swing where it remains stationary briefly. If the pendulum swing is counted at the point when it changes its direction and remains stationary for a moment then the number of oscillations in a period will be correct*



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## SUTRA 44.

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### 44. The mode of axiomatic action based on laws.

धर्मणा गमनम् ऊर्ध्वगमनं अधस्तम् भवति अधर्मणा ।  
ज्ञानेन च अपवर्गो विपर्ययाद् इत्यते बन्धः ॥४४॥

धर्मणा	गमनम्	ऊर्ध्व
dharmena	gamanam	ūrdham
Axiomatic laws	leads	rising or expansive

गमनं	अधस्तम्	भवति	अधर्मणा
gamanam	adhastad	bhavati	adharmena
but it leads to	below	manifest forms	non axiomatic law.

ज्ञानेन	च	अपवर्गो
Jñānena	c	apavargo
self-potential	cause of	state of coherence

विपर्ययाद्	इत्यते	बन्धः
viparyyayād	ishyate	bandhaḥ
reverse	results in	restrictions

Meaning;

Satwic expansive actions are supported by axiomatic laws and leads upwards or towards a free state but actions opposing it results in lowered states that leads to tamasic or compressive states that are restrictive. Inner self potential is the only cause of synchronisation and establishment of coherent state but obstruction or restrictions results in a confined and bonded state.

*Notes: An extraordinary theorem differentiating coherent states from confined or bound states caused by restrictions or pressure from outside. As an example gas can be contained and confined due to pressure and that cannot be defined by axiomatic laws. But when the same gas condenses into a liquid state by its on inner potential it can be defined by axiomatic laws.*

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## SUTRA 45.

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### 45. State of unbalance is the motivating cause of manifestation.

वैराग्यात् ऽकृतिलयः संसारो भवति राजसात् रागात् ।  
ऐश्वर्यात् अविघातो विपयश्चात् तं विपयाक्षः      || ४५ ॥

वैराग्यात्      ऽकृतिलयः  
vairāgyāt      prakritilayah  
neutral balance      absorption of activity

संसारो      भवति      राजसात्      रागात्  
sansāro      bhavati      rājasāt      rāgāt  
universal      manifestation of      resonant interactions      spectrum

ऐश्वर्यात् अविघातो  
eśvaryāt avighāto  
power      acceleration

विपयश्चात्      तं      विपयाक्षः  
viparyayāt      tad      viparyāśah  
reversal      and      its opposite

Meaning:

When the Rajasic interactive states are equal and balanced, accumulation or increase of mass by absorption or super positioning of active displacements, occur. When unbalanced or unequal the increase or decrease in force causes acceleration or deceleration creating the manifest spectrum of universal phenomenon

*Notes: A cardinal theorem defining the conditions under which manifestation occurs in a dynamic and balanced interactive state. When the axiomatic interactive oscillations are balanced the reactions are balanced and it is manifested as a spectrum of resonant states. When force or increase in pressure occurs it creates accelerative states and decrease creates the opposite decelerative states.*

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## SUTRA 46.

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### 46. Interactions in the synchronised state causes 50 orders of change.

एष ऽप्रत्यय सगुण विपर्ययऽशक्ति तुष्टि सिद्धि आक्षयः ।  
गुणवैषम्यविमदास्तु तस्यचभेदास्तु पञ्चाशत् ॥४६॥

एष	ऽप्रत्यय	सगुण	विपर्ययः
esha	pratyaya	sargo	viparya
Dynamic	axiomatically ascertained	spectrum of manifestation	Interactive

अशक्ति	तुष्टि	सिद्धि	आक्षयः
Aśakti	tushti	Siddhi	ākhyah
unsynchronised	balanced	coherent & synchronised	defined as

गुणवैषम्यविमदास्तु  
gunavashamyavimardāt  
Interaction due to combinations of the three Guna states

तस्यचभेदास्तु	पञ्चाशत्
tasyacabhedāstu	pañcāśat
As a consequence the varieties are	fifty orders of powers

Meaning:

The axiomatically ascertained order of the spectrum of manifest states due to the interactive combinations are defined as non-synchronised, balanced and coherent & synchronised states. Permutations and combinations caused by the interplay of the three Guna modes of interaction results in a variety of states numbering 50 orders (power index).

*Notes: An extra ordinary and unique theorem based on axiomatic derivation that defines the limit of the maximum variety of interactive states possible in the Universe. The three Guna interactions create three variations of interactive states as expanded or non-synchronised or freedom in three axial directions, balanced or resonant or freedom in two axial directions and coherent or synchronised or no freedom in any axial directions and axiomatically to reaches a maximum of 50 orders of powers.*

## SUTRA 47.

### 47. Balanced , synchronised and its reversed variation sequence of interactions.

पञ्च विपयश्च भेदा भवन्त्यशक्तिसु च करणवैकल्यात् ।  
अष्टाविंशतिभेदा तुष्टिर् नवधा अष्टधा सिद्धिः ॥ ४७॥

पञ्च	विपयश्च	भेदा	भवन्त्य
pañca	viparyaya	bhedā	bhavantya
5 orders	dynamically	changing	volumetric forms

अशक्तिसु	च	करणवैकल्यात्
aśaktis	ca	karanavaikalyāt
asynchronous	and	accelerative activity

अष्टाविंशति	भेदा
Ashtāvinśathi	bhedā
28 Orders of	changes through interactive combinations.

तुष्टिर्	नवधा	अष्टधा	सिद्धिः
tushtir	navadhā	ashtadhā	siddhih
balanced	9 orders	8 orders	coherent & synchronised.

Meaning:

A sequence of 5 orders (of power index) of dynamically changing volumetric forms, create asynchronous and intensely accelerative interactions. Further, a sequence of 28 orders of interactive changes through combinations occur, followed by a sequence of 9 orders of balanced interactive activity and 8 orders of coherent and synchronised states.

*Notes: The 50 orders defined in the previous theorem is further defined as combinatorial formations arising from the three Guna state. The expansive and accelerative states take 5 orders, while 28 orders are involved in the spectrum of resonant changes and 9 orders are used in the balanced state and 8 create the coherent and synchronised states. Though the 50 could have divided into 2 equal states of 25, from sutra 33 clearly states that 3 orders create the self similar volumetric state internally so 25 plus 3 = 28 leaving 22 as the active external states where 5 asynchronous, 9 resonant and 8 coherent states total up to it.*

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## SUTRA 48.

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### 48. Order of compression increase when one, two and three axis synchronise.

भेदस् तमसो अष्टविधो मोहय च दशविधो महामोहः ।  
तामिणे अष्टादशधा तथा भवति अण्धत आमिणः ॥ ४८ ॥

भेदस्	तमसो	अष्टविधो	मोहय
bhedas	tamaso	ashtavidho	mohasya
Interactive changes	compressively	through 8 orders	super positioned state

च	दशविधो	महामोहः
ca	daśavidho	mahāmohah
further	10 orders	deeply nested

तामिणे	अष्टादशधा
tāmisro	ashtādaśadhā
dense core	level of 18 orders

तथा	भवति	अण्धतआमिणः
tathā	bhavati	andhatāmisrah
leading to	the form of	the dense darkest inner core

Meaning;

Interactive changes in the compressive Thamasic state proceed on the basis of 8 orders of change to create the superposed state. The merging along three axial directions at the first Moha level is 2 cubed or 8 orders. The second level of merging is more deeply nested as the Mahamoha level and therefore 4 more levels are added to the 2 forming 6 orders and along all three axes it totals to 18 levels of order. This forms the innermost deep and darkest dense core as the Andhathamishra state.

*Notes: The coherent state merges into more dense levels and the first merging being 2 and on all three axial directions it totals 8. The next inner level of merging into a more dense state is by increasing the nested level from 2 to double that value to 4. Along each axis then 6 orders are there and on all three axis, it totals to 18 orders of the inner most dense state that cannot be seen or detected and is called the “dark as hell” dense state as the blackhole state in Physics*

## SUTRA 49.

### 49. The 11 & 17 orders of the weak and balanced groups.

एकादशेऽपियवधाः सह बुद्धिवधैर् शक्तिर् उदिष्टा ।  
सप्तदशवधा बुद्धेर् विपयज्ञात् तुष्टि सिद्धि नम् ॥४९॥

एकादशेऽपियवधाः सह  
ekādaśendriyavadhāḥ saha  
Eleven –orders of expansion capable

बुद्धिवधैर् शक्तिर् उदिष्टा  
buddhivadhair śaktir uddishtā  
Coherent action obstruction weak mentioned

सप्तदशवधा बुद्धेर्  
saptadaśavadhā buddher  
Seventeen orders coherent

विपयज्ञात् तुष्टि सिद्धि नम्  
viparyayāt tushti siddhi nam  
Non synchronisation balanced synchronised phases

Meaning:

Eleven orders of expansive interactions cover the observable range out of the previous 28 orders mentioned before. The balance of 17 orders consists of the balanced and coherent states and the radiant states. With the 5 orders of radiant state it forms 22 orders. The 17 orders form the common potential to both phases.

*Notes: The previous theorem defined the combinations possible when the axis merge forming coherent volumetric states. In this theorem the balance 50-28=22 orders are separated into the three groups of coherent, balanced and unsynchronized states. The five orders of expanded states being in the unsynchronized group it leaves 17 orders as combinations in both compressive and resonant or balanced groups. In the expansive phase it is 11 orders leaving 6 orders as 3 orders combined or merged in the outward direction. In the inward direction the 11-3 =8 orders form the coherent Siddhi state and 6+3=9 orders as the balanced state. The 11 is equal to the electric and 6 to the magnetic field. The 9 and 8 orders are the simultaneous coherent field of electromagnetic and gravitational fields in space. The 9 order is at the radiating source and 8 is at the absorbing ground state. This theorem is not in Physics. ( $2/x^3=8.4721+1=9.4721$ )*

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## SUTRA 50.

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### 50. Nuclear balancing paramaeters

आ०या०मिका चत० : ँकृति उपादान काल भा०य अ०याः |  
बा०या विषयो परमात् प०च नव तु०टयो भि हिताः || ५० ||

आ०या०मिका चत० :  
ādhyātmikā catasrah  
Internal nuclear field fourth order of power

ँकृति उपादान काल भा०य अ०याः  
prakriti upādāna kāla bhāgy akhyāh  
Self action material cause time axiomatic defined

बा०या विषयो परमात् प०च  
Bāhyā vishayo paramāt pañc  
External objects fundamental fifth power

नव तु०टयो भि हिताः  
nava tushtayo bhi hitāh  
Nine balanced both equalized

Meaning:

The interaction inside the nuclear state is defined as fourth power as initiating or material cause of action and responsive self reaction, the time period of the reaction and the axiomatic potential available for the internal interaction. Externally detectable fundamental activity is defined as at the fifth power and when these two act together synchronously it is at the ninth power.

*Notes: This cardinal theorem defines the internal motivating potential and the external expansive transmigrating states. The definition of self action is derived as when the internal state of three orders becomes self oscillating as a reaction to material harmonic interaction controlled by axiomatic laws where time is involved. The definition is extended to externalized or detectable object states as when the same interaction is extended to five orders in time such that the combination of internal and external states total nine orders out of the 17 orders in which 8 remains as the balanced ground state.  $(2/x^3 + [(2/x^3)+1])=9.4721$  as the potential of radiating phenomena)*

## SUTRA 51.

### 51. Colliding interaction cause of vibrations.

ऊहः शब्दो अण्ययनं दुःख विघातास् त्रयः सुप्त प्राप्तिः ।  
दानं च सिद्धयो आष्टौ सिद्धेः पूर्वङ्कुस् त्रिविधः ॥ ५१००॥

ऊहः	शब्दो	अण्ययनं
ūhah	śabdo	adhyayanam
Knowledge gained	mode of vibrations	through research

दुःख	विघातास्	त्रयः	सुप्त	प्राप्तिः
duhkha	vighātās	trayah	suhrta	prāptih
Stress	colliding	three modes	intensive	super positioned

दानं	च	सिद्धयो	आष्टौ	सिद्धेः
dānam	ca	siddhayo	ashtau	siddheh
Divergent	also	synchronised	eighth power	coherence

पूर्वङ्कुस्	त्रिविधः
Pūrvo- ankus	trividhah
At origin- controlled state	third power

Meaning:

Knowledge gained through research on vibratory or oscillatory stress caused by colliding interactions, follow three modes of action (as compressive, resonant and radiating guna modes) leading to intensive super positioned, divergent, or synchronised states, raised to the eighth power in the coherent mode. The original state prior to the interaction has been established to be in a controlled, compressed, cubic, volumetric state, raised to the third power.

*Notes: The rationale of the ground state is derived axiomatically from interactive states between the volumetric components forming the substratum of space. The interaction creates stresses of three types (Guna modes) that are in a super-positioned, resonant and radiative state. The axiomatic rationale is intellectually at the highest level. Two colliding volumes sequentially are  $1+1=2$  and simultaneously as  $3+3=6$  and totals  $6+2=8$  and cube of  $2=8$ . Resonant state is  $4+4=8$  and compressive as  $4-1=3$  and expansive as  $4+1=5$  all of which create an axiomatic sequence of interactive states that is always equal to 8 as the ground state. This theorem has no equal in Physics or Cosmology.*



## SUTRA 52.

### 52. The polarisation of phenomenon into coherent potential (mass) and kinetic potential (charge) modes.

न विना भावैर् लिङ्गं न विना लिङ्गेन भावनिर् वृत्तिः ।  
लिङ्गा यो भावा या तस्मा विविधाः वतसे सग ॥ ५२ ॥

न	विना	भावैर्	लिङ्गं
na	vinā	bhāvair	lingam
Not	without	kinetic-phase	coherent potential state

न	विना	लिङ्गेन	भावनिर्	वृत्तिः
na	vinā	lingena	bhāvanir	vrithih
not	without	coherent potential phase	the kinetic state	vortex-(particle)

लिङ्गा यो	भावा या	तस्मा
lingākhyo	bhāvākhyā	tasmād
defined as mass	defined as charge	thus

विविधाः	वतसे	सग
dviddhāh	pravartate	sargah
dual mode of polarisation	initiates	phenomenon

Meaning:

Neither can a defined potential source exist without a defined kinetic phase nor can a potential phase without a kinetic charge for only then a vorticular particle can be initiated from a potential source. The potential is classified as mass and the kinetic phase as charge from which dual combination all phenomena is initiated and maintained by this continuous dual mode of polarisation.

*Note: The fundamental cause of phenomena is defined and derived here. Linga as the coherent state as mass and Bhava as the kinetic state as charge must interact to create a vortex that is detected as a particle. The continued interactive state of dual mode of polarisation initiates the detectable particle or vortex or quantum as Vrithi that creates the phenomena. The theorem lays the foundation for the perpetual harmonic oscillatory state that forms the dynamic base to sustain holographic phenomena eternally.*

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## SUTRA 53.

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### 53. Guna classification.

अष्टं विकल्पं दैवं तैयग्योनम् पञ्चधा भवति ।  
मानुष्यम् एकविधः समासतो यं त्रिधा सगृह्यते ॥ ५३ ॥

अष्टं	विकल्पं	दैवं
ashtam	vikalpam	daivam
Eightfold	variations	natural phenomenon

तैयग्योनम्	पञ्चधा	भवति
Thairyagyonomam	pañcadhā	bhavati
Organic class	five orders	forms

मानुष्यम्	एकविधः
mānushyam	ekavidhaḥ
Sentient, thinking	single class

समासतो	यं	त्रिधा	सगृह्यते
samāsato	yam	tridhā	sargah
succintly	restrain	three classes	manifest phenomeno.

Meaning:

Natural or inorganic or matter oriented phenomenon is the result of 8 orders of variations and the organic or sub human order is of five orders of variation. The human order is from a single variant in the five. These three classes succinctly provide the complete spectrum of phenomena.

*Notes: The polarisation of phenomena from the 8 orders forming the substratum of manifestation is categorized as five. The 3 orders provide the base for any and every phenomena as defined in the earlier theorem. It has extraordinary consequences for it is shown to have no connection to the Moha, Mahamoha and Andathamishra state and therefore all living forms have Satvic or radiant or spiritual base for its formation.*

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## SUTRA 54.

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### 54. The distribution of Guna interactive states.

उर्वरुव विशरलसु तडुदरशलरुव डूलतः सगु ।  
डरुडे रकुवलशलु डुडड अदर डतडड डडरुतं डुडुड डु

उर्वरु	सडुव	वलशलरुसु
ūrdhvam	satva	viśālas
Ascending order	Satvic	predominantly

तडुदरशलरुव	डूलतः	सगु
tamodīśālaśva	mūlatah	sargah
Tamasic predominantly	in the descending order of	manifestation

डरुडे	रकुवलशलु
madhye	rajovīśālo
The central	Rajasic predominantly

डुडड अदर डतडड	डडरुतं
brahm ādi stamb	paryantam
starting from dynamic to static field	to the final point.

Meaning:

Ascending order of outward manifestation is predominantly Sathwic and the descending inward mode of creation is predominantly Thamasic and the intermediate range is predominantly Rajasic and it is consistently so right from the source of the dynamic creative field to the final coherent (static) order of manifestation.

*Notes: Increasing orders of interactive counts are predominantly expansive or radiative as the Sathvic Guna. Decreasing order formed by merging or superposing into dense and coherent states of simultaneous counts fall within the Thamasic Guna state. The transition intermediate region of resonant and balanced state forms the Rajah Guna. The sequence of the three interactive states repeats or continues from the source of the dynamic fundamental field up to its limiting boundary. Acme of Unification is established for it emphasizes that all forms of manifestation have the same three modes of operation.*

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## SUTRA 55.

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### 55. Stress in three modes follows self similar laws in the dynamic SUBSTRATUM.

त॒ जरा मरण कृतं दुःखम् प्राप्नोति चेतनः पु॒षः ।  
लि॒ङ्ग॒य विनि वृ॒तेः त॒मा॒ दुःखं स्वभावेन ॥ ५५ ॥

त॒	जरा	मरण	कृतं	दुःखम्
tatra	jarā	marana	kritam	duhkham
Therefore	decaying	dying	activity	stresses

प्राप्नोति	चेतनः	पु॒षः
prāpnoti	cetanam	purushah
attainment	dynamic	nucleus

लि॒ङ्ग॒य	विनि	वृ॒तेः
lingasya	vini	vritheh
Coherent superpositioning	minimised	vortex /quanta

त॒मा॒	दुःखं	स्वभावेन
tasmād	duhkham	svabhāven
thus	stress	self similar mode

Meaning:

Therefore the interactive process of decaying and dying interactive stresses creates the dynamic state of the Purusha at the nuclear core through absorption of stresses. The diminishing vorticular interactive activity by the process of super positioning continues until the minimized interactions is absorbed to form the coherent state through the self similar interactive mode of action.

*Note: The principle of the formation of the nuclear core is a self similar process of merging by absorption. As the interactive stresses diminish, decay and die out, the dwindling counts are absorbed at the boundary of the nuclear core to form a coherent state by super-positioning of the decaying quanta through an absorption process following the rules of self similar merging of stresses. The decreasing interactive stress count increases in turn the inflow or gravitational acceleration towards the “static” core. Hence gravitation is ubiquitous.*

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## SUTRA 56.

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### **56. Manifestation is the result of interactions to maintain the balance between nucleus and boundary.**

इति एष ऽकृति कृतो महः आदि विशेषभूत पयःतः ।  
प्रति पुंष विमोऽन् अथऽवाथऽइव पराथऽआरऽभः ॥ ५६ ॥

इति	एष	ऽकृति	कृतो
iti	esha	prakrithi	kritho
Thus	natural	oscillatory activity	interactions

महः	आदि	विशेषभूत	पयःतः
mahad	ādi	viśeshabhūta	paryantah
Intense force	source	specific matter	limiting boundary

प्रति	पुंष	विमोऽन्	अथऽ
prati	purusha	vimokshān	arth
towards	nucleus	isolating	potential

ऽवाथऽ	इव	पराथऽ	आरऽभः
svārth	iva	parārth	ārambhah
Self acting potential	along with	reactive potential	initiates

Meaning:

Interactive oscillatory activity is initiated and perpetuated from the intense fundamental activity at the source to the final coherent superposed massive state at the isolated the nuclear boundary where the self potential balances with the reactive potential to initiate the cyclic activity.

*Notes: Referring to theorem 55 the process of how the nuclear region is isolated and yet the interactions continue as an oscillatory interaction. The intense force from the boundary is directed towards the nuclear core and its reaction initiates the cyclic process from the start again. The oscillation starting from the boundary as an intense inward going action towards the nucleus is drawn towards it by its self potential which isolates it but the rebounding reaction initiates the cycle from the starting point again.*

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## SUTRA 57.

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### 57. Attainment of a coherent superposed state initiates oscillatory state.

वस विवृ वि निमिं रीरय यथा वृर् अ य |  
पुष विमो निमिं तथा वृिः धानय || ५७ ||

वस	विवृ	वि	निमिं	रीरय
vatsa	vivrid	dvi	nimittam	kshīrasya
Calf	growth	both	apparent cause	milk

यथा	वृर्	अ य
yathā	pravrithir	ajñāsya
like	commencement	ignorance

पुष	विमो	निमिं
purusha	vimoksha	nimittam
nucleus	isolation	apparent cause

तथा	वृिः	धानय
tathā	pravritthih	pradhānasya
similarly	commencement	fundamental oscillatory activity.

Meaning:

The growth of a calf is due to both, milk as its food and its commencement without any apparent cause or specific instruction. In a similar way the goal of the nuclear state to attain a state of restful balance, isolation or freedom from action-potential, is both the cause of initiating and maintaining a fundamental oscillatory state of continuous activity of the substratum.

*Note: An extraordinary theorem that allegorically compares two functions initiated by a single cause. By isolating the nucleus its reaction attains a balanced state and only the inward activity is detectable but not the outward reaction. It gives the impression that the oscillation is sustained by another reaction. The theorem highlights the nature of self similar activity that occurs simultaneously and proportionately that seems to hide the real cause.*

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## SUTRA 58.

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### **58. The Unmanifest state maintains the potential to act.**

औसुय निवृि अथलोकः यथा ि यासु वतते ।  
पुषय विमोथवतते तव अयतम्      || ५८ ||

औसुय	निवृि	अथ	लोकः
outsukya	nivrithi	artham	lokah
Zeal	releasing	purpose	people

यथा	ि यासु	वतते
yathā	kriyāsu	pravartate
like	action	maintaining activity

पुषय	विमोथ
purshasya	vimokshārtham
nucleus	purpose of releasing

वतते	तव	अयतम्
pravartate	tadvad	avyaktam
Maintaining activity	so also	unmanifest state

Meaning:

People are motivated into maintaining a state of activity to reduce their zeal for action; similarly the unmanifest state maintains the Purusha in an isolated state free of stresses by absorbing the activity of the continuous static and kinetic balancing interactions.

*Notes: Another allegorical comparison is given here to show that hidden need or desire also create the motivation to act. The need to release or eliminate activity around the nuclear boundary results in an unmanifest state or the need to maintain an unmanifest state creates the motivation to eliminate activity by absorbing it into the nucleus by merging that becomes coherent prevents a detectable action.*

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## SUTRA 59.

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### 59. Forming of nucleus due to reduction of potential difference.

रङ्गण्य दशयिवा निवतसे नतकी यथा नृण्यात् ।  
पुण्य तथा आमानम् काण्य विनिवतसे कृतिः ॥ ५९ ॥

रङ्गण्य	दशयिवा	निवतसे
rangasya	darśayitvā	nivartate
Performing on stage	to an audience	satisfies the desire

नतकी	यथा	नृण्यात्
narthakī	yathā	nrithyāth
dancer	relates	dancing

पुण्य	तथा	आमानम्
puruśrya	tathā	āthmānam
nuclear potential drop	spread	intenal energy

काण्य	विनिवतसे	कृतिः
prakāśya	vinivartate	prakrithih
Radiates	reducing potential	oscillatory wave-forms

Meaning:

Just as the external exhibition of a dancer's performance reduces his urge to continue his perform because it satisfies his desires; similarly the outward spreading of internally created self energy diminishes its potential by radiation and thereby reaches an interactive state of balance in an oscillatory state.

*Notes: An allegorical comparison highlights the subtle motivation process of a dancer wanting to go on stage before an audience to attain satisfaction which results in diminishing his desire to perform. Similarly the absorbed internal energy is released by the process of radiating light that immediately reduces its inner potential and attains a state of balance in its interactive state.*



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## SUTRA 60.

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### 60. Cause of interactive oscillations

नाना विधिर् उपायैर् उपकारिणि अनुपकारिणः पुंसः ।  
गुणवप्य अगुणप्य सतप्य अप्य अथप्य अपाथकं चरति ॥ ६० ॥

नाना	विधिर्	उपायैर्
nānā	vidhir	upāyair
various	controllable	corrective

उपकारिणि	अनुपकारिणः	पुंसः
rupakārini	anupakārinah	pumsah
supportive	non-supportive	driing potential

गुणवप्य	अगुणप्य
gunavathya	agunasya
through the quality of the Gunas	and its reversal

सतप्य	अप्य	अथप्य	अपाथकं	चरति
satast	asya	artham	apārthakam	carati
Dynamic non-dynamic	thus	potential	lack of potential	oscillation

Meaning:

Various factors, controllable, corrective, supportive, non supportive nuclear state along with the interactive Guna qualities and its opposite coherent superposed states of dynamic and non dynamic-potential and lack of potential maintains the oscillatory activity.

*Notes: The gamut of complementary states that act for and against are listed out to show that it is a part of Guna interactive principle that maintains the interactive state perpetually.*

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## SUTRA 61.

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### 61. the oscillatory displacement at the point of balance is very attenuated.

प्रकृतेः सुकुमार अत् अरं न किञ्चित् अस्तीति ।  
मे मतिः भवति या दृष्टा अस्मीति पुनर्दशज्ञम् उपैति पुरुषाय ॥ ६१००

प्रकृतेः	सुकुमार	अत्	अरं
prakrithah	sukumār	at	aram
Oscillatory	displacements	very fine	angular elocity

न	किञ्चित्	अस्तीति
Na	kiñcit	astīti
Not	doubtful	existence

मे	मतिः	भवति	या	दृष्टा	अस्मीति
mey	matih	bhavati	yā	drishtā	asmīti
interactive	information	existence	obtain	observable	self-potential

पुनर्दशज्ञम्	दशज्ञम्	उपैति	पुरुषाय
punarna	darśanam	upaiti	purushasya
not again	ability to be	observable	nuclear region

Meaning:

At the nuclear boundary the oscillatory displacement reduces to a minute angular oscillatory movement such that its very existence seems doubtful. The consequent reduction in the interactive self potential does not ever allow it to radiate detectable information again on the state of interaction of the nuclear region.

*Note: Cardinal theorem that defines how and why the balanced potential at the nuclear interface is not ever detectable. The angular moments of the interactions that merge at the boundary decrease the counts and thereby increase the reaction response time. As the merged count density increases the ever increasing response time is hidden by the external activity such that the nuclear boundary becomes undetectable. This is reason the nuclear region is defined as a dark and dense state unobservable from the outer boundary yet provides the potential as a ground state of the lowest count to allow higher count interactions to get absorbed.*

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## SUTRA 62.

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### 62. interactions are cause of manifestation as a holographic phenomenon.

तस्मान् नबध्यते नापि मुच्यते नापि संसरति कश्चित् ।  
संसरति बध्यते मुच्यते च नानाश्रया प्रकृतिः ॥ ६२ ॥

तस्मान्	नबध्यते	नापि	मुच्यते
tasmān	nabadhyate	nāpi	mucyate
Therefore	not bound	nor even	released

नापि	संसरति	कश्चित्
nāpi	sansarathi	kaścith
nor even	transmigrated	neither

संसरति	बध्यते	मुच्यते
sansarathi	badhyate	mucyate
Transmigrated	bound	released

च	नानाश्रया	प्रकृतिः
c	nānāśrayā	prakrithih
only	never resting	intense oscillations

Meaning:

Therefore nothing is bound, released or transmigrates. Only the oscillatory wave forms of interactions is merged, bound or superposed by synchronization into a coherent state, released by de-synchronisation and transferred by transmigration due to self similar displacements and this never decaying, dynamic interactive state continues perpetually.

*Notes: An extraordinary theorem that defines the concept of a holographic state of all manifest phenomena for that is the only method by which the observable state in which a substratum of space could exist. It focuses on the important point that interactions in any medium would create stresses in three modes and only these could or would transmigrate in many forms to create the observable and unobservable phenomena that is characterized as a hologram. Unfortunately this vital principle that sustains the universe does not form the foundation of Physics and Cosmology.*

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## SUTRA 63.

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### 63. Interactive Radiation.

रूपैः सप्तभिर् एव बध्नाति आमनं आमना कृतिः ।  
सैव च पुषाथम् प्रति विमोचयत्य एक रुपेण ॥ ६३००

रूपैः	सप्तभिर्	एव	बध्नाति
rupaih	saptabhir	eva	badhnāti
Volumetric forms	seven levels	up to	superposes or merges

आमनं	आमना	कृतिः
āmānam	ātmanā	prakrithih
compressively	by self potential	Interactive oscillations

सैव	च	पुषाथम्
saiva	ca	purushārtham
equal to	also	nuclear potential

प्रति	विमोचयत्य	एक	रुपेण
prati	vimocayaty	eka	rupena
Towards	process of release	by one	form.

Meaning:

The oscillatory waveforms merge or superposition itself by its own inward going potential, to form the nuclear density by compressing the seven volumetric waveforms till it equals the coherent nuclear potential. When it expands it releases all the seven volumes as one waveform simultaneously.

*Notes: The extraordinary principle of stress radiation through its own inner potential is explained here. The holographic mode of radiation is defined and derived in numerical terms as a ratio. Inward going interactive stresses compress seven volumetric wave forms when the radial distance is halved or density rises by 8 times and it stops when the nuclear potential is reached. On the outward expansive phase of the interaction it releases all the seven volumes simultaneously as the process radiating outward is against diminishing pressure and hence acceleration takes place. This mechanism of the compressive and expanding interaction is not derived in Physics as the space in which it occurs is considered vacuous and void of substantial qualities.*

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## SUTRA 64.

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### 64. the cause of a specific self-potential as a ground state.

एवं तव अयासान् नाति न मे नाह मिय अपरिशेषम् ।

एवं	तथा	अभ्यासान्	नास्ति
Evam	thathva	abhyāsān	nāsti
Hence	theoretical	research	non-availability

न	मे	नाह	मित्या	अपरिशेषम्
na	mey	nāha	mitya	apariśesham
Not	exchange	confinement	measure	exact

अविपययथा	विशुद्धं
aviparyayād	viśuddham
unchanged	pure

केवलम्	उत्-पायते	ऽ	नम
kevalam	ut-pādyate	jñā	nam
Merely	also - specifically	self-potential	sunk to lowest level

Meaning:

Hence fundamental research indicates that non availability of self-potential is the cause of the existence of a potential sink (ground state) and not due to any precise measure of interactive control that a pure changeless ground state exists.

*Notes: The theorem reconfirms through theoretical validation that the ground state that acts like a sink is neither due to interactive exchange nor confinement that can be measured to precise value but the mere act of merging due to simultaneous action creates the lowered potential state that initiates transmigration of stresses towards it. Therefore a cardinal principle is established that stress get absorbed into the nuclear third order state that forms the hologram and also provides the vital mechanism to maintain the gravitational acceleration everywhere in space or the Universe.*

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## SUTRA 65.

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### 65. the state of balance when the nuclear boundary is in balance.

तेन निवृ० ऽसवं अथ०वशात् सप्त० ऽप विनि वृ०ाम् ।  
ऽकृतिं प०यति पु०षः ऽे० कव० अव०थितः ऽव०थः ॥ ६५००॥

तेन	निवृ०	ऽसवं	अथ०	वशात्
tena	nivrihta	prasavam	artha	vaśāt
Consequently	neutral	current	potential	insignificant

सप्त०	ऽप	विनि	वृ०ाम्
sapta	rupa	vini	vrittām
seven	forms	reduced	oscillatory activity

ऽकृतिं	प०यति	पु०षः
prakrithim	paśyati	purushah
Oscillatory waveforms	reduced activity	nucleus

ऽे० कव०	अव०थितः	ऽव०थः
prekshakavad	avasthitah	svastham
background	location	firm .

Meaning:

When the oscillatory interactions are minimised because of the reduction in activity between the boundary and nuclear core, the interactive current becomes neutral and the activities at the seven radial levels becomes insignificant, and the nuclear core as Purusha attains a dense superposed background state.

*Notes: The derivation in this theorem confirms the process and logic by which the nuclear surface is firm and forms the substantial background location that is precise and permanent. The oscillatory waveforms created by the interactive state reduces its count rate per cycle through merging into a coherent state whereby the surface density of interactive counts reaches a maximum while the count rate minimises to the lowest value.*

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## SUTRA 66.

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### 66. state of balance by eliminating the potential to act.

दृष्टा मयेत् उपेक्षक एको दृष्टा ह मित् उपरमिति अया ।  
सति संयोगे अपि तयोः प्रयोजनं नास्ति सगम्य || ६६ ||

दृष्टा	मयेत्	उपेक्षक	एको
drishtā	mayeth	upekshak	eko
observation	consisting of	neutral	one

दृष्टा	ह	मित्	उपरमिति	अया
drishtā	ha	mith	uparamithi	anyā
observation	indeed	proof of	ceases	other

सति	संयोगे	अपि	तयोः
sathi	samyoge	api	thayoh
existence	conjunction	even	though

प्रयोजनं	नास्ति	सगम्य
prayojanam	nāsthi	sargasya
benefit	non existence	manifestation

Meaning:

Observing the neutral state of one gives the proof that the observable movement of the other has ceased and even though both are together no interactive manifestation exists.

*Notes: An extraordinary theorem that gives a logically specific explanation as to why space seems to be in an unmanifest or undetectable state. In the balanced perpetual harmonic oscillatory state the resonant interaction neutralizes the displacement in both directions because it is at the same time or simultaneously. Hence even though the interactions are going on it cannot be observed as the neutral state of the boundary gives the impression that the core too is in the same un-manifest state.*

## SUTRA 67.

### 67. conversion of kinetic force into static potential as inertia or mass

संयोजन अधिगम धर्मादीनाम् अकारण प्राप्तौ |  
तिष्ठति संकार वश चक्रमवधि तः शरीरः || ६७ ||

संयोजन	अधिगम	धर्मादीनाम्
samyajñān	adhigama	dharmādīnām
Synchronously	acquire	by axiomatic principles

अकारण	प्राप्तौ
akāraṇa	prāptaū
self motivated	process of

तिष्ठति	संकार	वश
tishtathi	sanskāra	vaś
required potential	momentum	synchronous super positioning

चक्रमवधि	ध्रितः	शरीरः
cakrabhramavad	dhrithah	śarīrah
Inertia of flywheel	dense	mass

Meaning:

The basic principle of acquiring a mass is by synchronous super-positioning of oscillatory interactions on components into a coherent and super symmetric state that is relatively static by allowing the spin angular momentum or inertia to be converted to a dense, potential state through attaining coherence or accumulation through a self similar proportion or ratio.

*Notes: Path breaking theorem of defining the concept mass or density in a holographic environment that is in a perpetual harmonic oscillatory state. The standard definition of mass of volume into density in a static environment cannot be applied to dynamic space for it already has absolute and fundamental properties that cannot be defined except by comparison. Therefore the observed mass in the manifest or unmanifest state logically must be different but must have the same mechanical process of acquiring it. The logic is rigorous because the dynamic mass changes due to various factors and must be distinguished from the mass density concept of static objects. Time interval in the expanded state disappears in the coherent dense state and the identity of that process is compared to a flywheel where it acquires dynamic mass by the rate of spin and which is defined as its angular momentum or inertia stored in it that changes slowly.*



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## SUTRA 68.

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### 68. the final synchronised, coherent , dynamic state of isolated nucleus.

प्राप्ते शरीर भेदे चरताथवात् प्रधान विनि वृषौ |  
एकांतिकम् आप्यतिकम् उभयं कैवलयम् आप्नोति || ६८००

प्राप्ते	शरीर	भेदे	चरताथवात्
prāpthe	śarīra	bhede	caratārthatvāt
Acquiring	mass	by exchanging	synchronous oscillations

प्रधान	विनि	वृषौ
pradhāna	vini	vrithau
Primary activity boundary	diminishing	interactive vortex

एकांतिकम्	आप्यतिकम्
aikāntikam	ātyantikam
synchronised & coherent	perpetual or eternal

ubhaya	kaivalyam	āpnoti
both	unhindered	accomplished

Meaning.

The process of acquiring mass is given effect by super-positioning the interactive vortex like waveforms that gradually diminishes the cyclic interactions such it reaches a synchronised balanced and coherent state within the first or primary activity boundary. Since the entire process is self-motivated through axiomatic ratios it achieves a singular unified coherent nuclear interactive state perpetually as there is no hindrance or restrictions from any external source.

*Notes: The acme of unification is reached in this theorem. By deriving the process of self acquisition of dynamic mass or interactive density by its own inner self potential induced by attaining a merged and coherent state that makes it act as single unit without any external cause it attains the ability to remain interactive without any obstruction perpetually. It provides the perpetual, harmonic, oscillatory state to support the holographic process of manifestation that has both mass to act simultaneously and vorticular interactions to act sequentially and provides te logical base for the existence of both manifest and unmanifest phenomena.*

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## NOTES: COMPARING SUTRA 1 AND 68.

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Investigating the triad of interactive stresses shows that such interactive modes of stresses exist but it would not have been detectable, had it not been for the existence of the synchronised - perpetual - dynamic - unmanifest state of existence (of the substratum).

Explanation:

Referring to the first Sutra, the logic of the conditional statement in it is proved:

The final proof of the entire spectrum of manifestation after sequentially analysing the logical factors is given in this Sutra. The opening Sutra itself follows the principle of looping back to create a circular rationale by choosing a phraseology that elliptically negates itself. The triad of stresses is a reference to the GUNA interactive states of TAMA, RAJA and SATWA. This Sutra explains how the Satwic nature of the vortex like interaction of the un-synchronised waveforms outside the primary boundary or Pradhana state, drift towards the nuclear centre because it is in a relative state of rest due to the coherent and synchronised condition of the PURUSHA location. The isolation of the nuclear core has an important significance for the dynamic state of the nucleus is possible only if there is a perpetual harmonic oscillation. Hence the nuclear core is in a perpetual harmonic oscillatory state that decays in infinite time or the vibratory state continues eternally.

The Raja region closer to the Satwa interface has a larger oscillatory displacement amplitude but at the other end near the PURUSHA interface the oscillations combine or superpose together and act simultaneously as a coherent set of synchronised vibrations with a diminished amplitude. As the oscillatory ensemble drift towards the centre, the super-positioning quality increases the inertia or mass and at a particular point the superpositioning density reaches a maximum and all detectable oscillatory movements synchronise and act together in a coherent breathing mode or a whole spherical surface vibrates as a unit. In an oscillating ensemble when the centre acts at the rate of a single interaction per cycle all the higher oscillatory interactive rates would drift or gravitate towards lower rate. It drifts inward because the reactions are at a lower rate. Interactive stresses always transmigrate from a higher to a lower rate.

Therefore the innermost boundary interacting simultaneously as a single unit gets compressed by the outer spherical surface oscillating at a higher rate. The inner, static, stationery, passive, becomes dense with maximum number of oscillations simultaneously occupying this location at the nuclear PURUSHA core and acts as potential sink but because of the inward pressure of the spherical boundary it can never become active enough to lose its' attracting potential or sink status. The spherical boundary surface in the breathing mode is in an interactive Raja state that carries out the change from a sequential oscillatory state to a parallel or simultaneous super posed or merged state. Since this conversion takes place over a rate changing factor of 2, there are  $(8-1) = 7$  intermediate levels of change as explained in Sutra 3 , and those describing the Guna states and Sutras 63 & 65. The most important underlying principle is that all the descriptions pertain ONLY to oscillations taking place on or in the undetectable components of the SUBSTRATUM. The entire theory is based on analysing the eternally dynamic holographic state of the SUBSTRATUM axiomatically through its own potential difference caused by the dense Thamasic state decreasing the oscillatory count at the centre and the higher resonant oscillatory Raja state at the boundary, thus directing the Satwa state inward and continues perpetually.

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## SUTRA 69.

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### **69. the knowledge of the nuclear potential is codified in this work**

पु०ष अथ० नं इदं गु०यम् परमषिष्ठा समा० यातम् ।  
०थथि उप०ि ०लयाः चि०य०ते य० भूतानाम्    || ६९ ००००

पु०ष	अथ०	० नं	इदं
purusha	artha	jñānam	idaṃ
Nuclear	potential	theory	in this work

गुह्यम्	परमर्षिणा	समायातम्
guhyam	paramarshinā	samākhyātam
Secret	by the greatest Maharishi	encoded or framed

ऋथि	उपति	ऋलयाः
sthathi	upatti	pralayāh
Origin	growth	completion of cycle

चिन्त्यते	या	भूतानाम्
cintyante	yatra	bhūtānām
Intellectual	ascertainment of	existing reality

Meaning:

The knowledge of the nuclear potential is encoded in this work by the great Maharishi where-in the method of intellectually ascertaining the process of manifestation of phenomenon from its origin, through its growth and till the completion of its cycle in the existing reality , is explained here.

*Notes: This is a confirmation that Maharishi Kapilla was the author of the theorems presented here, which are encoded and hence secret . The theory is complete for it can be intellectually verified, from its origin, development and finally to the completion of its cyclic action in reality.*

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## SUTRA 70.

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### 70. the hierarchy of information transmission

एतत् पवित्रं अग्र्यम् मुनिर् असुरये अनुकम्पाया ऽददौ ।  
आसुरिर् अपि पञ्चशिखाय तेन सा बहुधा कृतं तन्त्रम् ॥ ७० ॥

एतत्	पवित्रं	अग्र्यम्	मुनिर्
etat	pavithram	agyram	munir
This	original	highest doctrine	the Sage

असुरये	अनुकम्पाया	ऽददौ
asuraye	anukampāyā	pradadau
To Asuri	with understanding	handed down

आसुरिर्	अपि	पञ्चशिखाय
āsurir	api	pañcaśikhāy
From Asuri	to	Panchasikha

तेन	सा	बहुधा	कृतं	तन्त्रम्
Tena	sā	bahudhā	kritham	tantram
By whom	it was	extensively	propagated	doctrine

Meaning:

This original and fundamental doctrine the sage gave to Asuri who in turn handed down to Panchasikha by whom it was extensively propagated as the perfect set of principles explaining the mode of action in reality that can be verified intellectually.

**THE END.**

Email id. [gsvasktg@gmail.com](mailto:gsvasktg@gmail.com)

Website <http://www.kapillavastu.com>

Mobile: 9003708817

