

# SANKHYA KARIKA

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## SUTRA 1.

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### The Dynamic Substratum:

दुःख त्रय अभिघाताज् जिज्ञासा तद् अभिघातके हेतोः ।  
दृष्टे सा अपार्था चेन्न ऐकान्त अत्यन्त अतो अभावात् ॥ १ ॥

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

तद्	अभिघातके	हेतोः
thad	abhighātake	hetho
Such-	interactive-modes	exist

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

ऐकान्त	अत्यन्त	अतो	अभावात् १
aikāntha	atyantha	atho	abhāvāth
Synchronised	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.

द्रुष्टवद् आनुश्रविकः सहि अविशुद्धि क्षयाति शययुक्तं ।  
तद् विपरीतः श्रेयान् व्यक्त अव्यक्त ज्ञ विज्ञानात् ॥ २ ॥

द्रुष्टवद्      आनुश्रविकः  
drishtavad      ānuśravik:  
Observation      standard method

सहि      अविशुद्धि      क्षयाति      शययुक्तं  
sahi      aviśuddhi      kshrayāti      śayayukta  
certainly      distorted-      attenuated-      of inferior resolution.

तद्      विपरीतः      श्रेयान्  
Tad      viparīta:      śreyān  
Hence      alternative      satisfactory

व्यक्त      अव्यक्त      ज्ञ      विज्ञानात्  
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 प्रकृतिर् अविकृतिर् महद् अद्याः प्रकृति विकृतयः सप्त |  
षोडश कस् तु विकारो न प्रकृतिर् नि विकृतिः पुरुषः ||३||

मूल प्रकृतिर् अविकृतिर्  
mūla prakruthir avikruthir  
Root oscillatory coherent & synchronised

महद् अद्याः प्रकृति विकृतयः सप्त  
mahad adyāh prakruthi vikrutaya: saptha  
intense primary fundamental oscillatory rate harmonics seven

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

न प्रकृतिर् नि विकृतिः पुरुषः  
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 आसवचनं च सर्व प्रमाण सिद्धत्वात् ।  
त्रिविधं प्रमाणम् इष्टं प्रमेय सिद्धिः प्रमाणाद् धि ॥ ४ ॥

दृष्टं	अनुमानम्	आसवचनं
drishtam	anumānam	āptavacanam
perception	inference-	axiomatic principles

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

त्रिविधं	प्रमाणम्	इष्टं
trividham	pramānamam	ishtam
threefold	rationale	appropriate

प्रमेय	सिद्धिः	प्रमाणाद्	धि ४
prameya	siddhi:	pramānād	dhi
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 अध्यवसायो दृष्टं त्रिविधं अनुमानम् आख्यातम् ।  
तल्लिङ्ग अलिङ्ग पूर्वकम् आसश्रुतिर आसवचनंतु      || ५ ||

प्रति	विषय	अध्यवसायो
prati	vishaya	adhyavasāyo
Reference	sensory	persistent

दृष्टं	त्रिविधं	अनुमानम्	आख्यातम्
drishtam	thrividham	anumānam	ākhyātam
perception	threefold	inference	define

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

आसश्रुतिर	आसवचनंतु
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 दृष्टाद् अतीन्द्रियाणाम् प्रतीतिर् |  
अनुमानात् तस्माद् अपि च सिद्धम् परोक्षं अस अगमात् सिद्धम् || ६ ||

सामान्य      अत      अस्तु  
sāmānya      atha      asthu  
Synchronised    moving    expansive

दृष्टाद्      अतीन्द्रियाणाम्    प्रतीतिर्  
dṛishtāḍ      atīndriyāṇām    pratītir  
phenomenon    imperceptible    successful

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

परोक्षं      अस      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 सामीप्याद् इन्द्रियघातान् मनोऽन् अवस्थानात् ।  
सौक्ष्म्याद् व्यवधानाद् अभिभवात् समान अभिहार च ॥ ७ ॥

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

मनोऽन्	अवस्थानात्
manon	avasthānāt
mental	state

सौक्ष्म्याद्	व्यवधानाद्	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 तद् अनुपलब्धिर् न अभवत् कार्यतस् तद् उपलब्धिः ।  
महद् अदि तत् च कार्यम् प्रकृति विरूपं स्वरूपं                      || ८ ||

सौक्ष्म्यात् तद् अनुपलब्धिर् न अभवत्  
saukshmyāt tad anupalabdhir na abhavat  
Subtleness- hence non detection not non existence

कार्यतस् तद् उपलब्धिः  
kāryatas tad upalabdhī:  
reaction therefore detection

महद् अदि तत् च कार्यम्  
mahad adi tat ca kāryam  
intense- source following also actions

प्रकृति विरूपं स्वरूपं  
prakṛti virūpam svarūpam  
oscillations harmonics fundamental

Meaning:

The non delectability (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.**

असद् करणाद् उपादान ग्रहणात् सर्व सम्भव |  
अभवत् शक्तस्य शक्य करणात् कारण भव च सत्कार्यम् || ९ ||

असद्	करणाद्	उपादान
asad	karanād	upādān
Illogical	action	material cause

ग्रहणात्	सर्व	सम्भव
grahanāth	sarva	sambhav
acceptance	all	possibility

अभवत्	शक्तस्य	शक्य
abhavat	śaktasya	śakya
non existing	ability	possible-act

करणात्	कारण	भव	च	सत्कार्यम्
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 अनित्यं अव्यापि सक्रियम् अनेकम् आश्रितं लिंगम् ।  
स अवयवं परतन्त्रं व्यक्तं विपरीतम् अव्यक्तं || १० ||

हेतुमत्	अनित्यं	अव्यापि	
hetumat	anityam	avyāpi	
Effect	temporary	non-pervasive	
सक्रियम्	अनेकम्	आश्रितं	लिंगम्
sakriyam	anekam	āśritam	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 प्रसव धर्मि ।  
व्यक्तं तथा प्रधानं तद् विपरीतस् तथा च पुमान्      || ११ ||

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

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

व्यक्तं	तथा	प्रधानं	तद्
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 विषाद् आत्मकाः प्रकाश प्रवृत्ति नियमार्थाः ।  
अन्योन्य अभिभव आश्रय जनन मिथुन वृत्त्याश्रव गुणाः ॥ १२ ॥

प्रीति	अप्रीति	विषाद्	आत्मकाः
prīti	apṛīti	vishād	ātmakāh
Buoyant	calm	despair	self

प्रकाश	प्रवृत्ति	नियमार्थाः
prakāśa	pravṛitti	niyamārthāh
Manifest	interface	limit

अन्योन्य	अभिभव	आश्रय	जनन	मिथुन
anyony	abhibhav	āśraya	janana	mithun
mutually	predominantly	interactive	creative	associative

वृत्त्याश्रव	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.

सत्त्वं लघु प्रकाशकम् इष्टं उप अष्ट अम्भकं चलं च रजः ।  
गुरु वरणकं एव तमः प्रदीपव च अर्थो वृत्तिः                      || १३ ||

सत्त्वं	लघु	प्रकाशकम्
Sathvam	laghu	prakāśakam
radiant state	swift	intensely-energetic

इष्टं	उप	अष्ट	अम्भकं
Ishtam	upa	ashta	ambhakam
as required	beyond	eight orders of	radiation-spectrum

चलं	च	रजः
Chalam	cha	rajah
shuttling	between	the transition force

गुरु	वरणकं	एव	तमः
guru	varanakam	eva	thamah
heavy	enveloped	as if	nuclear inertial mass or force

प्रदीपव	च	अर्थो	वृत्तिः
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 तद् विपर्यया अभावात् |  
कारण आत्मक गुणत्वात् कार्यस्य अव्यक्तम् अपि सिद्धम् || १४ ||

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

तद्	विपर्यया	अभावात्
tad	viparyayā	abhavat
Such	reverse	non-existing

कारण	आत्मक	गुणत्वात्
kāraṇa	āthmaka	gunathvāth
motive	self	vector forces

कार्यस्य	अव्यक्तम्	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 समन्वयात् शक्तिः प्रवृत्तेश्च |  
कारण कार्य विभागादत् अविभागादत् वैश्वरूपस्य || १५ ||

भेदानां	परिमाणात्	समन्वयात्	शक्तिः	प्रवृत्तेश्च
hedānām	parimānāth	samanvayāt	śaktitah	pravritheśva
changing	value of measure	sequential	bonding	cyclic action
कारण	कार्य	विभागादत्	अविभागादत्	वैश्वरूपस्य
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 ॥ १६ ॥

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 अर्थत्वात् त्रिगुण आदि विपर्ययाद् अधिष्ठानात् ।  
पुरुषो अस्ति भोक्तृ भावात् कैवल्य अर्थ प्रवृत्तेश्च ॥ १७ ॥

संघात	पर	अर्थत्वात्
samghātha	para	arthatvāt
Aggregation	background	motivation for

त्रिगुण	आदि	विपर्ययाद्	अधिष्ठानात्
triguna	ādi	viparyayād	adhishtānāth
Triple-interaction	start	reversal of	source location

पुरुषो	अस्ति	भोक्तृ	भावात्
purusho	asti	bhoktra	bhāvāt
nucleus	resting	coherent	state

कैवल्य	अर्थ	प्रवृत्तेश्च
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 प्रतिनियमाद् अयुगपत् प्रवृत्तेश्च ।  
पुरुष बहुत्वं सिद्धं त्रैगुण्य विपर्यया चैव ॥ १८ ॥

जनन	मरण	कारणानां
janana	marana	kāranānām
Creation	dissolution	activity

प्रतिनियमाद्	अयुगपत्	प्रवृत्तेश्च
pratiniyamād	ayugapat	pravṛ tteśv
operating principle	not at once	oscillatory action

पुरुष	बहुत्वं	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 विपर्यासात् सिद्धं साक्षित्वमस्य पुरुषस्य ।  
कैवल्यम् माध्यस्त्यं द्रष्टृत्वम् अकर्तृभावात्      || १९ ||

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

साक्षित्वमस्य	पुरुषस्य
sākshitvamasya	purushasya
passive state	nuclear region

कैवल्यम्	माध्यस्त्यं
kaivalyam	mādhyastyam
unhindered	neutral

द्रष्टृत्वम्	अकर्तृभावात्
drashtathvam	akarthrabhāvāt
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 ।  
गुणकर्तृत्वे च तथा कर्त् 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

गुणकर्तृत्वे	च	तथा
gunakartrthva	ca	tathā
action of gunas	and	thus

कर्त्	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.

पुरुषस्य दर्शन अर्थ कैवल्य अर्थ तथा प्रधानस्य |  
पङ्गव् अन्धवद् उभयोर् अपि संयोगस् ततः कृतः सर्गः || २१ ||

पुरुषस्य	दर्शन	अर्थ	कैवल्य	अर्थ
purushasya	darśan	artha	kaivaly	artha
nuclear state	detection	potential	unhindered	potential

तथा	प्रधानस्य
tathā	pradhānasya
therefore	fundamental manifested state

पङ्गव्	अन्धवद्	उभयोर्	अपि
pangav	andhavad	ubhayor	api
Lame	blind	interdependance	similarly

संयोगस्	ततः	कृतः	सर्गः
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.

प्रकृतेर् महं अस्त अतो अहंकारः तस्माद् गणस् च षोडशकः ।  
तस्माद् अपि षोडशक अत् पञ्चभ्यः पञ्चभूतानि || २२ ||

प्रकृतेर्	महं	अस्त	अतो
prakrithēr	maham	asth	atho
Oscillatory	intense force	expanding	continuously active

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

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

पञ्चभूतानि  
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.

अध्यवसायो बुद्धिर् धर्मो ज्ञानं विराग ऐश्वर्यम् ।  
सात्त्विकं एतद् रूपं तामसम् अस्मद् विपर्यस्तम् ॥ २३ ॥

अध्यवसायो	बुद्धिर्	धर्मो
adhyavasāyo	buddhir	dharmo
constant stress	potential	axiomatic law
ज्ञानं	विराग	ऐश्वर्यम्
jñānam	virāg	aiśvāryam
static potential	phase-change	acceleration
सात्त्विकं	एतद्	रूपं
sātvikam	etad	rupam
expansive	thus	volume or form
तामसम्	अस्मद्	विपर्यस्तम्
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 तस्माद् द्विविधः प्रवर्तते राग् ।  
एकादशकस् च गणस् तन्मात्रः पञ्चकश्चैव      || २४ ||

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

द्विविधः	प्रवर्तते	राग्
dvividhah	pravartate	rāg
twofold way	initiate action	spectrum

एकादशकस्	च	गणस्
ekādaśakas	ca	ganas
elevenfold	and	calculated

तन्मात्रः	पञ्चकश्चैव
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 compression and expansion. Since space is volumetric then each volumetric form will take 3 orders of stress levels and therefore in the expanding phase it will add up to  $8+3=11$  and in the compressive phase reduce to  $8-3 = 5$ . Therefore the expanding phase will consist of eleven orders of stress levels creating the acceleration and reduce to 5 orders of stress levels in the compressive phase. In Physics the eleven orders correspond to the electric field force as permittivity and the five orders as the magnetic field force as permeability.*



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## SUTRA 25.

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### 25. Expansive interaction rises to . Power

सात्त्विक एकादशकः प्रवर्तते वैकृताद् अहंकारात् ।  
भूतादेस् तन्मात्रः स तामसः तैजसाद् उभयं     || २५ ||

सात्त्विक     एकादशकः  
sātvik     ekādaśakah  
expansive     elevenfold

प्रवर्तते     वैकृताद्     अहंकारात्  
pravarthathe     vaikrithād     ahankārāth  
initiates     acceleration     self-action

भूतादेस्     तन्मात्रः  
bhūtādes     thanmātrah  
dense mass states     vorticular oscillatory state

स     तामसः     तैजसाद्     उभयं  
sa     tāmasah     taijasād     ubhayam  
using compressive     expansive     both

Meaning:

The expansive satvik state of eleven orders initiates acceleration through the oscillatory action and creates the dense or mass states and the vorticular or spinning states by using both the expansive and compressive stresses respectively.

*Note: This theorem defines the mass and charge states in Physics. When the acceleration from the expansion of 11 orders of stress levels interact in oscillatory mode, the compressive mode creates the dense states with mass 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 श्रोत्र घ्राण रसन स्पर्श आख्यानि ।  
वाक् पाणि पाद पायु पस्थान् कर्मेन्द्रियान्याहुः                      || २५ ||

बुद्धिइन्द्रिय	अणि	चक्षुः
buddhindriya	ani	chaksus
Input Sensory responses	are	seeing

श्रोत्र	घ्राण	रसन	स्पर्श	आख्यानि
śrotra	ghrāna	rasana	sparś	ākhyāni
hearing	smelling	tasting	touching	defined

वाक्	पाणि	पाद
vāk	pāni	pāda
vocalizing	handling	walking

पायु	पस्थान्
pāyu	pasthān
Expelling	regenerating

कर्मेन्द्रियान्याहुः  
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 अत्र मनः संकल्पकं इन्द्रियं च साधर्म्यात् ।  
गुणपरिणाम विशेषान् नानात्वम् बाह्य भेदाश्च      || २७ ||

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

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

गुणपरिणाम	विशेषान्
gunaparināma	viśeshān
Interactive transformation by Gunas	with specific output

नानात्वम्	बाह्य	भेदाश्च
nānātvam	bāhya	bhedāśca
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 विहरणोत्सर्गानन्दाः च पञ्चानाम् ॥ १८ ॥

शब्दादिषु पञ्चानाम्

śabdādīṣhu pañcānām  
From sound onwards sequence of five

अलोचनमात्रमिष्यते

alochanamātramishyate  
Observable measure of action

वृत्तिः

vrittih  
vortex or quantum

वचन

vacan

Oscillatory

अदान

adāna

interactive

विहरणोत्

viharanoth

transporting

सर्गानन्दाः

sargānandāh

Radiation creation

च

ca

are

पञ्चानाम्

pañcānām

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

स्व लखक्षण्यं वृत्तिस् त्रयस्य स ऐषा भवति असामान्या ।  
सामन्य करण वृत्तिः प्राण आद्या वा यवः पञ्च      || २९ ||

स्व लखक्षण्यं	वृत्तिस्
sva lakhakshanyam	vrithis
self -similarity (definition)	cyclic-vortex (quanta or photon)

त्रयस्य	स	ऐषा	भवति	असामान्या
trayasya	sa	evā	bhavati	asāmānyā
third power	as	if	moving together	non synchronously

सामन्य	करण	वृत्तिः
sāmānya	karana	vrithih:
coherently	acting	cyclic vortex activity

प्राण	आद्या	वा	यवः	पञ्च
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 natures 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 unit at the fifth power.*

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## SUTRA 30.

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

युगपच् चतुष्टयस्य तु वृत्तिः क्रमशस् च तस्य निर्दिष्टा ।  
दृष्टे तथापि अदृष्टे त्रयस्य तत्पूर्विका वृत्तिः ॥ ३० ॥

युगपच्	चतुष्टयस्य	तु वृत्तिः
yugapac	catuthushtasya	tu vrithih
Instantaneous cycle	fourth power	applies to cyclic-vortex .

क्रमशस्	च तस्य	निर्दिष्टा
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	वृत्तिः
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 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 वृत्तिम् ।  
पुरुषार्थ एव हेतुर् न केनचित् कार्यते करणम् ॥ ३१ ॥

स्वां	स्वाम्	प्रति	पद्यन्ते	
svām	svām	prati	padyante	
self-similar	self-organised	towards	all the way to the end	
परस्पर		अकूत	हेतुकं	वृत्तिम्
paraspar		akūta	hetukam	vrithim
mutual	interactive exchange	selfmotivated	impulse	cyclic vortex
पुरुषार्थ	एव	हेतुर्		
purushārth	eva	hetur		
nuclear potential	only	motivating impulse		
न केनचित्	कार्यते	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 त्रयोदशविधम् तद् आहरण धारण प्रकाशकरम् ।  
कार्यं च तस्य दशधा आहार्यं धार्यम् प्रकाश्यं || ३२ ||

करणं                      त्रयोदशविधम्  
Karanam                  trayodaśavidham  
Potential - cause      thirteenth power

तद्                      आहरण                      धारण                      प्रकाशकरम्  
tad                      āharana                      dhārana                      prakāśakaram  
in which it      accelerates      super positioning      radiates

कार्यं                      च                      तस्य                      दशधा  
kārya                      ca                      tasya                      daśadhā  
Kinetic-activity      and      consequently is the      tenth power

आहार्यं                      धार्यम्                      प्रकाश्यं  
Āhāryah                      dhāryam                      prakāśyam  
Acceleration      super positioning      radiation.

Meaning:

The potential rises to the . Power to accelerate superpose and radiate. Consequently the kinetic potential rises to the 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 13th the 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 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.

अन्तः करणं त्रिविधं दशधा बाह्यं त्रयस्य विषयाख्यम् ।  
साम्प्रतकालम् बाह्यं त्रिकालम् अभ्यन्तरं करणम्      || ३३ ||

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

दशधा	बाह्यं	त्रयस्य	विषयाख्यम्
daśadhā	bāhyam	trayasya	vishayākhyam
Tenth power	external	triad	detectable defined

साम्प्रत	कालम्	बाह्यं
sāmprata	kālam	bāhyam
Present sequential	time	external

त्रिकालम्	अभ्यन्तरं	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 power and the third power (from the 13 orders) is defined as the detectable state. If the power exists externally as present time the third power of time forms the internal bonding force.

*Notes: As the 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 order externalizes the third order as a detectable state. Inward the 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 .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	śabdavishayā
Speech forms relates to	sound vibrations

शेषाणि	तु	पञ्चविषयाणि
śeshāni	tu	pañcavishayāni
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 . order damping action.**

स अन्तः करण बुद्धिः सर्वं विषयम् अवगाहते यस्मात् ।  
तस्मात् त्रिविधं करणं द्वारि द्वाराणि शेषाणि || ३५ ||

स	अन्तः	करण	बुद्धिः
sa	antah	karana	buddhih
At	limit	bond	coherence state

सर्वं	विषयम्	अवगाहते	यस्मात्
Sarvah	vishayam	avagāhate	yasmāt
All	sensory signals	plunges	consequently

तस्मात्	त्रिविधं	करणं	द्वारि
tasmāt	trividham	karanam	dvāri
Therefore	third power	bonding	medium

द्वाराणि	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 प्रदीप कल्पाः परस्पर विलक्षणा गुणविशेषाः ।  
कृत्स्नं पुरुषस्यार्थं प्रकाश्य बुद्धौ प्रय् अच्छ अन्ति ॥ ३६ ॥

एते	प्रदीप	कल्पाः		
yethe	pradīpa	kalpāh		
Spectrum	light radiation	process		
परस्पर	विलक्षणा	गुणविशेषाः		
paraspara	vilakshanā	gunaviśeshāh		
Mutual	complex	guna interaction		
कृत्स्नं	पुरुषस्यार्थं	प्रकाश्य		
kritsnam	purushasyārtham	prakāśya		
totally	purusha potential	manifest		
बुद्धौ	प्रय्	अच्छ	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.*

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## SUTRA 37.

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

सर्वं प्रत्यपभोग यस्मात् पुरुषस्य साधयति बुद्धिः ।  
सैव च विशिन् इष्टि पुनः प्रधान पुरुषान्तरं सूक्ष्मं ॥ ३७ ॥

सर्वं	प्रत्यप	भोग	यस्मात्
sarvam	pratyapa	bhoga	yasmāt
Comprehensive	extraordinary	extract	in this way

पुरुषस्य	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	पुरुषान्तरं	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 applies to unrestrained space.(The Rigveda first sloka contains this theorem with 25 digit numerical proof)*

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## SUTRA 38.

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

तन्मात्राणि अविशेषास्तेभ्यो भूतानि पञ्च पञ्चभ्यः ।  
एते स्मृता विशेषाः शान्ता घोरास् च मूढाश्च      || ३८ ||

तन्मात्राणि	अविशे	षास्तेभ्यो
tanmātrāṇi	aviśeṣha	āstebhyo
Self-generated vortex	sequential	eight powers

भूतानि	पञ्च	पञ्चभ्यः
bhūtāni	pañca	pañcabhyah
elemental matter	five	fifth power

एते	स्मृता	विशेषाः
yete	smrithā	viśeṣhāh
spectrum	law or formula	derived values

शान्ता	घोरास्	च	मूढाश्च
śāntā	ghorās	ca	mūḍhaśca
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 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 स्युः ।  
सूक्ष्मास्तेषां नियता मातापित्रजा निवर्तन्ते                      || ३९ ||

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

त्रिधा	विशेषाः	स्युः
tridhā	viśeshāsha	syuh
triple	interactive	bond

सूक्ष्मास्तेषां	नियता
sūkshamāsteshām	niyatā
Mobile field	constant

मातापित्रजा	निवर्तन्ते
mātāpitṛajā	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.

पूर्वोत् पन्नं असक्तं नियतम् महदादि सूक्ष्म पर्यन्तम् ।  
संसरति निरूप भोगम् भावैर् अधिवासितं लिङ्गम्     || ४० ||

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

महदादि	सूक्ष्म	पर्यन्तम्
mahadādi	sūkshama	paryantam
From dense	to the expansive field	upto the limiting 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 .

चित्रं यथा अश्रयम् ऋते स्थाण्वाधिभ्यो विना यथा छाया ।  
तद्वद् विना विशेषैर् न तिष्ठति निराश्रयं लिङ्गम्      || ४१ ||

चित्रं	यथा	अश्रयम्	ऋते
chithram	yathā	aśrayam	chitrathe
Picture	for instance	support	framework

स्थाण्वाधिभ्यो	विना	यथा	छाया
sthānvādhibhyo	vinā	yathā	chāyā
post	without	for instance	shadow

तद्वद्	विना	विशेषैर्
tadvad	vinā	viśeshair
so far	without	specific

न	तिष्ठति	निराश्रयं	लिङ्गम्
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.

पुरुष अर्थ हेतु कं इदं निमित्त नैम्-इतिक प्रसङ्गेन ।  
प्रक्रतेर् विभुत् वयोगान् नटवद् व्यवतिष्ठते लिङ्गम् ॥ ४२ ॥

पुरुष	अर्थ	हेतु	कं
purusha	artha	hetu	kam
nucleus	potential	motivating	attraction

इदं	निमित्त	नैम् इतिक	प्रसङ्गेन
idam	nimitta	naim-ittika	prasangena
To this	target	circumferentially	surface attachment

प्रक्रतेर्	विभुत्	वयोगान्
prakrater	vibhut	vayogān
oscillatory action	strongly	resonant

नटवद्	व्यवतिष्ठते	लिङ्गम्
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 कार्या श्रयिणश्च 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

कार्या      श्रयिणश्च      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.

धर्मेण गमनम् ऊर्ध्वं गमनं अधस्तद् भवति अधर्मेण ।  
ज्ञानेन च अपवर्गो विपर्ययाद् इष्यते बन्धः ॥ ४४ ॥

धर्मेण	गमनम्	ऊर्ध्वं	
dharmena	gamanam	ūrdham	
Axiomatic laws	leads	rising or expansive	
गमनं	अधस्तद्	भवति	अधर्मेण
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	इष्यते	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 प्रकृतिलयः संसारो भवति राजसात् रागात् ।  
ऐश्वर्यात् अविघातो विपर्ययात् तद् विपर्यासः      || ४५ ||

वैराग्यात्      प्रकृतिलयः  
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

विपर्ययात्      तद्      विपर्यासः  
viparyayāt      tad      viparyāsaḥ  
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 प्रत्यय सर्गो विपर्यय अशक्ति तुष्टि सिद्ध आख्यः ।  
गुणवैषम्यविमर्दात् तस्यचभेदास्तु पञ्चाशत् ॥ ४६ ॥

एष	प्रत्यय	सर्गो	विपर्यय
esha	pratyaya	sargo	viparya
Dynamic	axiomatically ascertained	spectrum of manifestation	Interactive

अशक्ति	तुष्टि	सिद्ध	आख्यः
Aśakti	tushti	Siddhi	ākhyah
unsynchronised	balanced	coherent & synchronised	defined as

गुणवैषम्यविमर्दात्  
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.*

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## SUTRA 47.

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

पञ्च विपर्यय भेदा भवन्त्य अशक्तिस् च करणवैकल्यात् ।  
अष्टाविंशतिभेदा तुष्टिर् नवधा अष्टधा सिद्धिः ॥ ४७ ॥

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

अशक्तिस्	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 25plus 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 मोहस्य च दशविधो महामोहः ।  
तामिस्रो अष्टादशधा तथा भवति अन्धत आमिस्रः     || ४८ ||

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

च	दशविधो	महामोहः
ca	daśavidho	mahāmohah
further	10 orders	deeply nested

तामिस्रो	अष्टादशधा
tāmisro	ashtādaśadhā
dense core	level of 18 orders

तथा	भवति	अन्धतआमिस्रः
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*



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## SUTRA 49.

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

एकादशेन्द्रियवधाः सह बुद्धिवधैर् शक्तिर् उद्दिष्टा ।  
सप्तदशवधा बुद्धेर् विपर्ययात् तुष्टि सिद्धि नम्      ||४९||

एकादशेन्द्रियवधाः	सह
ekādaśendriyavadhāh	saha
Eleven –orders of expansion	capable

बुद्धिवधैर्	शक्तिर्	उद्दिष्टा
buddhivadhair	śaktir	uddishtā
Coherent action obstruction	weak	mentioned

सप्तदशवधा	बुद्धेर्
saptadaśavadhā	buddher
Seventeen orders	coherent

विपर्ययात्	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 parameters

आध्यात्मिका चतस्रः प्रकृति उपादान काल भाग्य अख्याः ।  
बाह्या विषयो परमात् पञ्च नव तुष्टयो भि हिताः ॥ ५० ॥

आध्यात्मिका	चतस्रः
ādhyātmikā	catasrah
Internal nuclear field	fourth order of power

प्रकृति	उपादान	काल	भाग्य	अख्याः
prakriti	upādāna	kāla	bhāgy	akhyāh
Self action	material cause	time	axiomatic	defined

बाह्या	विषयो	परमात्	पञ्च
Bāhyā	vishayo	paramāt	pañc
External	objects	fundamental	fifth power

नव	तुष्टयो	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)*

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## SUTRA 51.

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### 51. Colliding interaction cause of vibrations.

ऊहः शब्दो अध्ययनं दुःख विघातास् त्रयः सुहृत् प्राप्तिः ।  
दानं च सिद्धयो अष्टौ सिद्धेः पूर्वोऽङ्कुस् त्रिविधः ॥ ५१ ॥

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

दुःख	विघातास्	त्रयः	सुहृत्	प्राप्तिः
duhkha	vighātās	trayah	suhṛta	prāptih
Stress	colliding	three modes	intensive	super positioned

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

पूर्वोऽङ्कुस्	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.*

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## SUTRA 52.

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

न विना भावैर् लिङ्गं न विना लिङ्गेन भावनिर् वृत्तिः ।  
लिङ्गाख्यो भावाख्या तस्माद् द्विविधाः प्रवर्तते सर्गः ॥ 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)

लिङ्गाख्यो	भावाख्या	तस्माद्
lingākhyo	bhāvākhyā	tasmād
defined as mass	defined as charge	thus

द्विविधाः	प्रवर्तते	सर्गः
dvividhāh	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 तैर्यग्योनम् पञ्चधा भवति ।  
मानुष्यम् एकविधः समासतो यं त्रिधा सर्गः     || ५३ ||

अष्टं	विकल्पं	दैवं
ashtam	vikalpam	daivam
Eightfold	variations	natural phenomenon

तैर्यग्योनम्	पञ्चधा	भवति
Thairyagyonam	pañcadhā	bhavati
Organic class	five orders	forms

मानुष्यम्	एकविधः
mānushyam	ekavidhaḥ
Human	single class

समासतो	यं	त्रिधा	सर्गः
samāsato	yam	tridhā	sargaḥ
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.**

ध्वं सत्त्व विशालस् तमोदिशालश्च मूलतः सर्गः ।  
मध्ये रजोविशालो ब्रह्म आदि स्तम्ब पर्यन्तं      || ५४ ||

ध्वं	सत्त्व	विशालस्
ūrdhvam	satva	viśālas
Ascending order	Satvic	predominantly

तमोदिशालश्च	मूलतः	सर्गः
tamodiśālaśva	mūlatah	sargah
Tamasic predominantly	in the descending order of	manifestation

मध्ये	रजोविशालो
madhye	rajoviśālo
The central	Rajasic predominantly

ब्रह्म आदि स्तम्ब	पर्यन्तं
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.

तत्र जरा मरण कृतं दुःखम् प्राप्नोति चेतनः पुरुषः ।  
लिङ्गस्य विनि वृत्तेः तस्माद् दुःखं स्वभावेन      || ५५ ||

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

प्राप्नोति	चेतनः	पुरुषः
prāpnoti	cetanam	purushah
attainment	dynamic	nucleus

लिङ्गस्य	विनि	वृत्तेः
lingasya	vini	vritheh
Coherent superpositioning	minimised	vortex /quanta

तस्माद्	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 superpositioning 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 प्रकृति कृतो महद् आदि विशेषभूत पर्यन्तः ।  
प्रति पुरुष विमोक्षान् अर्थ स्वार्थ इव परार्थ आरम्भः ॥ ५६ ॥

इति	एष	प्रकृति	कृतो
iti	esha	prakrithi	kritho
Thus	natural	oscillatory activity	interactions
महद्	आदि	विशेषभूत	पर्यन्तः
mahad	ādi	viśeshabhūta	paryantah
Intense force	source	specific matter	limiting boundary
प्रति	पुरुष	विमोक्षान्	अर्थ
prati	purusha	vimokshān	arth
towards	nucleus	isolating	potential
स्वार्थ	इव	परार्थ	आरम्भः
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.**

वत्स विवृद् द्वि निमित्तं क्षीरस्य यथा प्रवृत्तिर् अज्ञस्य ।  
पुरुष विमोक्ष निमित्तं तथा प्रवृत्तिः प्रधानस्य      || ५७ ||

वत्स	विवृद्	द्वि	निमित्तं	क्षीरस्य
vatsa	vivrid	dvi	nimittam	kshīrasya
Calf	growth	both	apparent cause	milk
यथा	प्रवृत्तिर्		अज्ञस्य	
yathā	pravritthir		ajñasya	
like	commencement		ignorance	
पुरुष	विमोक्ष		निमित्तं	
purusha	vimoksha		nimittam	
nucleus	isolation		apparent cause	
तथा	प्रवृत्तिः		प्रधानस्य	
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.**

औत्सुक्य निवृत्ति अर्थ लोकः यथा क्रियासु प्रवर्तते ।  
पुरुषस्य विमोक्षार्थं प्रवर्तते तद्वद् अव्यक्तम्      || ५८ ||

औत्सुक्य	निवृत्ति	अर्थ	लोकः
outsukya	nivriithi	artham	lokah
Zeal	releasing	purpose	people

यथा	क्रियासु	प्रवर्तते
yathā	kriyāsu	pravartate
like	action	maintaining activity

पुरुषस्य	विमोक्षार्थं
purshasya	vimokshārtham
nucleus	purpose of releasing

प्रवर्तते	तद्वद्	अव्यक्तम्
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.**

रङ्गस्य दर्शयित्वा निवर्तते नर्तकी यथा नृत्यात् ।  
पुरुश्य तथा आत्मानम् प्रकाश्य विनिवर्तते प्रकृतिः ॥ ५९ ॥

रङ्गस्य	दर्शयित्वा	निवर्तते
rangasya	darśayitvā	nivartate
Performing on stage	to an audience	satisfies the desire

नर्तकी	यथा	नृत्यात्
narthakī	yathā	nrithyāth
dancer	relates	dancing

पुरुश्य	तथा	आत्मानम्
puruśrya	tathā	āthmānam
nuclear potential drop	spread	intenal energy

प्रकाश्य	विनिवर्तते	प्रकृतिः
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 ।  
गुणवत्य अगुणस्य सतस्त् अस्य अर्थ अपार्थकं चरति ॥ ६० ॥

नाना	विधिर्	उपायैर्
nānā	vidhir	upāyair
various	controllable	corrective

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

गुणवत्य	अगुणस्य
gunavathya	agunasya
through the quality of the Gunas	and its reversal

सतस्त्	अस्य	अर्थ	अपार्थकं	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 सुकुमार् अत् अरं न किञ्चित् अस्तीति |  
मे मतिः भवति या दृष्टा अस्मीति पुनर्न दर्शनम् उपैति पुरुषस्य || ६१ ||

प्रकृतेः	सुकुमार्	अत्	अरं
prakritheh	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

पुनर्न	दर्शनम्	उपैति	पुरुषस्य
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 आमानं आत्मना प्रकृतिः ।  
सैव च पुरुषार्थम् प्रति विमोचयत्य एक रूपेण      || ६३ ||

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

आमानं	आत्मना	प्रकृतिः
āmānam	ātmanā	prakrithih
compressively	by self potential	Interactive oscillations

सैव	च	पुरुषार्थम्
saiva	ca	purushārtham
equal to	also	nuclear potential

प्रति	विमोचयत्य	एक	रूपेण
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 तत्त्व अभ्यासान् नास्ति न मे नाह मित्य अपरिशेषम् ।  
अविपर्ययाद् विशुद्धं केवलम् उत्-पाद्यते ज्ञा नम                      || ६४ ||

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

न	मे	नाह	मित्य	अपरिशेषम्
na	mey	nāha	mitya	aparīśesham
Not	exchange	confinement	measure	exact

अविपर्ययाद्	विशुद्धं
aviparyayād	viśuddham
unchanged	pure

केवलम्	उत्-पाद्यते	ज्ञा	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 निवृत्त प्रसवं अर्थ वशात् सप्त रूप विनि वृत्ताम् ।  
प्रकृतिं पश्यति पुरुषः प्रेक्षकवद् अवस्थितः स्वस्थः ॥ ६५ ॥

तेन	निवृत्त	प्रसवं	अर्थ	वशात्
tena	nivrihta	prasavam	artha	vaśāt
Consequently	neutral	current	potential	insignificant

सप्त	रूप	विनि	वृत्ताम्
sapta	rupa	vini	vrittām
seven	forms	reduced	oscillatory activity

प्रकृतिं	पश्यति	पुरुषः
prakrithim	paśyati	purushah
Oscillatory waveforms	reduced activity	nucleus

प्रेक्षकवद्	अवस्थितः	स्वस्थः
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 अन्या ।  
सति संयोगे अपि तयोः प्रयोजनं नास्ति सर्गस्य                      || ६६ ||

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

दृष्टा	ह	मित्	उपरमिति	अन्या
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	सर्गस्य
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.*

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## SUTRA 67.

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

सम्यग्ज्ञान अधिगम धर्मादीनाम् अकारण प्राप्ताः ।  
तिष्ठति संस्कार वश चक्रभ्रमवद् ध्रितः शरीरः    || ६७ ||

सम्यग्ज्ञान	अधिगम	धर्मादीनाम्
samyagjñān	adhigama	dharmādīnām
Synchronously	acquire	by axiomatic principles

अकारण	प्राप्ताः
akāraṇa	prāptaḥ
self motivated	process of

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

चक्रभ्रमवद्	ध्रितः	शरीरः
cakrabhramavad	dhṛithah	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 चरतार्थत्वात् प्रधान विनि वृत्तौ |  
ऐकान्तिकम् आत्यन्तिकम् उभयं कैवल्यम् आप्नोति || ६८ ||

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

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

ऐकान्तिकम्	आत्यन्तिकम्
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 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 the 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 possibility of eliminating the triad of stresses shows that methods exist but the results from such methods would not have been successful had it not been for the existence of the absolute - eternal - dynamic – un-manifest 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 superpositioning 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. Therefore the innermost boundary is isolated or screened by the outer spherically oscillating surface. The inner, static, stationery, passive, dense with maximum number of oscillations simultaneously occupying this location at the nuclear PURUSHA core acts as potential sink but because of the screening spherical boundary it can never become active enough to lose its' attracting potential or sink status. The screening spherical 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 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 , those describing the Guna states and Sutras 63 & 65. The most important underlying principle is that all the descriptions pertain ONLY to vibrations 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

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## SUTRA 69.

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

पुरुष अर्थ ज्ञानं इदं गुह्यम् परमर्षिणा समाख्यातम् ।  
स्थिति उपति प्रलयाः चिन्त्यन्ते यत्र भूतानाम्    || ६९ ||

पुरुष	अर्थ	ज्ञानं	इदं
purusha	artha	jñānam	idaṁ
Nuclear	potential	theory	in this work

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

स्थिति	उपति	प्रलयाः
sthathi	upatti	pralayāh
Origin	growth	completion of cycle

चिन्त्यन्ते	यत्र	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 अग्रम् मुनिर् असुरये अनुकम्पाया प्रददौ ।  
आसुरिर् अपि पञ्चशिखाय तेन सा बहुधा कृतं तन्त्रम् ॥ ७० ॥

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

असुरये	अनुकम्पाया	प्रददौ
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.**

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<http://www.kapillavastu.com/index.html?r=20120707024127>  
<http://s1.webstarts.com/Sankhyakarika/index.html>