

## **Fundamental space**

### 1. The dynamic substratum:

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

### 2. Qualities of substratum

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.

### 3. Axiomatic 3 dimensional wave fundamentals of substratum.

: The fundamental resonant oscillatory state is synchronised, coherent, resonant and stable; the first interactive oscillatory state is of maximum intensity of acceleration; then there are seven levels of coherent, harmonic and 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

## **Intellectual Verification**

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

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.

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

With reference to persistent continuous sensory perception of phenomenon, there are three aspects of 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.

### 6. Process of holistic derivation of proof is Siddhi

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 (perfect resonance).

### **Axiomatic reasons for nondetection**

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

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).

#### 8. Reason why the fundamental substratum is not detectable.

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

#### 9. Logical reasons why substratum must exist if manifestation exists.

It is axiomatically illogical 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.

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

The caused 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 identified 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.

### **Self-similar law of interaction**

#### 11. Ability to discriminate 3 aspects of Gunas or interactive stresses is the cause of detectability.

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 interactions 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)

#### 12. Characteristics of Gunas (triad of interactive stresses).

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 a self supporting resonant or dynamic entity.

#### 13. Definition of Gunas.

Sathwa is the interaction which operates outward at the maximum rate with the required intensity and energy to transmit the interaction beyond the level of the first octet of interactions past the nuclear boundary that is in a fluidic or flexible state;

Raja is the interaction in the transition region of seven oscillatory plus the first forming the octet of interactions; that shuttles inward or outward to transfer the interactions from nuclear boundary to the second radial boundary and vice-versa;

Thaama is the decelerating interaction acting inward forming the static nuclear boundary;

Vrithi is the resultant interaction that is radiated in the form of a self-sustained vortex of radiant energy created by the permutations and combinations of the previous three levels of interactions to transfer interaction or radiate energy.

#### 14. Holistic logic can predict hidden states.

Through a process of holistic analytical derivation of proof it is proved that non detection or detection is due to the observers inability or ability respectively to detect any or all of the three

modes of exchange or transfer of interactions. 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 interactions by its own inner motivation or potential or cause or interaction to manifest as awareness or consciousness .

### **Phases of oscillatory states**

#### 15. Cyclic oscillatory interaction creates natural waveform.

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

#### 16. First change of phase occurs with increasing interaction.

In a manifestation of decelerating potential ,the triad of interactions is initiated into action resulting in a rising or increasing effort, interaction or pressure; and a transformation occurs ; a distinctive change of state, like that of vapour condensing to liquid, takes place when the inward going interaction is brought to a very restful(=synchronised therefore static state .

#### 17. Second change of phase creates nucleus .

The nucleus is the location, centre or core that holds the power, potential, interaction or energy produced as a result of the cyclic collision or aggregation due to close contact, back to back, of the oscillating volumes or waveforms, initiated or triggered into action by the operating principle of the triad of Guna (interactive interactions), in a relatively isolated, free and synchronised state.

[Summarising: the Purusha or nucleus is a superpositioning of three dimensional oscillatory waveforms due to the mode of action of the Gunas in a static state of dormant potential in the undetectable, absolute substratum that is synchronised and coherent, perpetually dynamic but unmanifest and the period being determined solely by the time constant referred to in suthra 3 that forms the self potential referred in suthra 2. ]

## **Nuclear state as superposed coherent activity**

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

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

### 19. The complex nuclear state forms background for manifestation.

From previous Suthras the conversely inferential holistic conclusion is that the nuclear state forms the background with particulate or inertial mass, in which it is relatively seen as being neutral, unhindered and static.

### 20. Static and dynamic state is sustained by interaction.

Because of the proximity of the static and dynamic states the static state seems dynamic and through the action of the Gunas the dynamic seems to behave in a static mode that maintains a balance.

### 21. Nuclear state is reference background.

Fundamental measurement of phenomenon references nucleus. Therefore the static 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 phenomenon 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.

## **Logic of self-sustaining activity**

### 22. Mathematical derivation of the dynamic self-similar state.

By the action of the primary interaction a self sustaining oscillatory state is established from which a series of measurable or detectable energy is radiated at a value that is at a sixteenth power of the primary value and in a progressive series incremented to the sixteenth level that binds or condenses

phenomenon through five levels into five sets of manifested phenomenon.

23. Ascertainment by axiomatic mathematical logic,

Intellectual logical confirmation process involves the application of axiomatic law in an expansive mode, backed with knowledge, flexibility to change scales and ratios in the order of powers whereas the opposite contractive, inverted and fractionising concepts lead to misconceptions and errors of judgement.

24. Mathematical description of field force as a spectrum.

Static potential and kinetic self-similar force (or energy) initiate action in a progressive incremental value in sequential sets of two to form a spectrum containing a sequential group of eleven , in groups of fives, of field (subtle) forces.

25. Expansive interaction rises to 11<sup>th</sup>. Power

The expansive Satwik state has a set of eleven levels of change. The compressive Thaamasic change initiated through self-action elemental particles with mass and self-sustaining vortex of charge the interactive Rajasic state is both expansive and compressive.

**Cerebral system as an universal function**

26. Efferent and afferent sensory systems.

Efferent or input sensory responses are light, sound, smell, chemical (taste) and contact (touch) and the afferent output or action responses are defined as oscillatory, exchanging, transporting, radiating and creating.

27. Interactions in the sensory systems.

Mind or the cerebral system is capable of processing both the efferent or incoming input sensory information and afferent or outgoing action oriented outputs and it can produce a specific output despite the diversity created by the permutations and combinations of the internal aspects of the three Gunas with the numerous external incoming signals.

28. The five levels of cyclic vortex (photonic) activities.

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, transmigrating, radiating and creative activities.

## **Perpetual oscillation and radiation**

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

The cyclic vortex functions on self similar principles upto 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.

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

When the oscillatory cycle count in all directions act simultaneously or synchronously and is raised to the 4<sup>th</sup>. Power, a cyclic self-supporting Vrithi (photon) is formed. When it acts non-synchronously or sequentially it becomes detectable and measurable with a degree of certainty. In the initial 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.

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

The cyclic vortex or spherical oscillator is kept in continuous interactive exchange upto 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 organised impulse or force and there is no other external potential cause.

## **Potential as coherent states**

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

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

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

The internal limit of potential is at the third power and the externalising detectable factor defined as existing in present time is upto the 10<sup>th</sup>. Power. The third power factor contributes to internal bonding or it is a limiting state .

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

The will or internal potential to act increases rate to 5<sup>th</sup>. power of both the specific and non specific or the observable and the

hidden sensory signals. Sound signals relate to speech or oscillatory functions whereas the rest relate to all the five observable interactions.

### **Third order constraint cause phenomena**

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

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 limiting medium, the remaining powers of interaction use this as medium.

36. Decay of radiated phenomenon.

Spectrum of light transmission process is a complex and mutually interactive Guna exchange sequence and it is totally controlled by the Purusha potential and it is the only coherent motivating factor clearly till its end.

37. Extraction of potential energy from the Purusha domain.

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.

38. Classification of activity of Vrithi and elements

The self-generated vortex or Vrithi has a non specific or wide range of activity level while the elements are at five levels upto the fifth power of activity. The spectrum logically covers the classes of activity states defined as synchronised, non synchronised, interactive, superposed and coherent

39. Genetic code

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

### **Superposed states create ground potential**

40. Linga state as coherent and superposed oscillations.

Static mass states are created by maximally absorbing and superpositioning the entire spectrum of vibratory or oscillatory states, from the largest and strongest to the (limit) finest, minimal kinetic charged states.



41. The need for the substratum as supporting framework for manifestation.

Just as it is not possible to present a picture without a supporting base nor cast a shadow without an appropriate pillar, so also it is impossible to have the synchronised and superpositioned static state without the required supportive base.

42. The synchronised state provides attracting potential to build up mass.

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

### **The balance in interactive states**

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

The source or starting point of the axiomatic laws of resonant action are from the state when the charged interactive state is in a state of perfect resonance and the starting point or start of time-cycle-period count of measurement commences when the action is in a state of relative rest or static state for detection is only possible when the detected component is at a restful state.

44. The mode of natural action based on rules.

Satwic expansive actions are supported by axiomatic laws and expands towards a free state but actions opposing it results in reduced states that leads to Thaamasic 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.

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

When the Rajasic interactive states are equal and balanced, accumulation or increase of mass by absorption or superpositioning 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.

## **Spectrum of interactions defined**

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

The ascertained order of the spectrum of interactive states due to the conditions of unbalance, non synchronisation, balance and coherent synchronisation caused by the interplay of three Guna modes of interaction rise upto 50 ( power index).

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

A sequence of 5 orders (power index) of change is created by the three varying states of interaction like non-synchronous, interactive change and synchronous. Weak and unsynchronised states have 28 orders while the balanced phase has 9 orders and the perfectly synchronised state has 8 orders of sequentially variable levels.

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

Interactive changes in the compressive Thaamasic state proceed on the basis of 8 orders of change along one axis and increases by the same order when it synchronises with another axis at a deeper level. At the next intermediate level it increases by 10 orders and at the final core level it increases by 18 and by another 18 at deepest core level synchronisation. That is  $8 + 5+4$  , followed by (5) in each axis and finally  $(8+10) 18$  . It is a combinatorial process of incremental rates that can synchronise and remain in balance only as even numbered levels.

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

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.

50. Nuclear balancing parameters

The interaction inside the nuclear state can be defined as at the fourth power, initiating cause of action and responsive self reaction , the time period of the reaction and the destined potential available for the reaction. Externally detectable

fundamental activity is categorised as being at the fifth power and when these two act together synchronously it is the ninth power.

**Interactions cause stress.**

51. Colliding interaction cause of vibrations.

Knowledge gained through research on vibratory or oscillatory stress caused by colliding interactions follow three step action (of compression – shuttling- expansion –Guna mode) leading to intensive superpositioned, divergent, or synchronised states, raised to the eighth power in a 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.

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

Neither can a characteristic potential source exist without a kinetic phase nor can a potential phase without a kinetic mode. A vorticular particle is initiated by a potential source. The potential is classified as mass and the kinetic phase as charge from which dual combination all phenomenon is initiated and maintained by a dual mode of polarisation.

53. Guna classification.

Natural or inorganic or matter oriented phenomenon is the result of 8 orders of variations and the organic or sub human order is fivefold . The human order is from a single variant, these three classes succinctly control the complete spectrum of phenomenon.

54. The distribution of Guna interactive states.

Ascending order of outward manifestation is predominantly Satwic and the descending inward mode of creation is predominantly Thaamasic and the intermediate range is predominantly Rajasic and it is consistently so right from the starting dynamic creative field to the final coherent static order of manifestation.

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

Therefore the process of decay and destruction introduces interactive stresses that create the dynamic state of the Purusha and on its absorption of the vorticular interactive activity by the nuclear core the process of superpositioning continues until the

interactions are minimised and a coherent self similar state is established.

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

In this way 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 nuclear boundary where the self potential balances with the reactive potential at the starting point .

### **Coherence causes potential states**

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

The growth of a calf is due to the flow of milk that seems to have commenced without a cause or specific instruction ; in a similar way the formation of the nucleus takes place by the stress transmigration of a static potential through the gradual attenuation of the primary kinetic force into a synchronised state of freedom by its own internal motivation or initiating activity to balance forces.

58. The unmanifest state maintains the potential to act.

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 stresses of the continuous static through kinetic balancing interactions.

59. Forming of nucleus due to reduction of potential difference

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

60. Cause of interactive oscillations

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.

### **Synchronisation causes holographic states**

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

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

62. Interactions are cause of manifestation as a holographic phenomenon.

Therefore nothing is bound, released or translocated. Only the oscillatory wave forms of interactions is bound or superposed by synchronisation, released by desynchronisation and transferred by transmigration due to unequal displacements and this dynamic state continues endlessly.

### **Self-similar interactions**

63. Interaction.

The oscillatory waveforms superposition itself by its own potential to form the nuclear density by compressing its waveforms to the seventh power when it becomes equal to the static nuclear potential and when it expands it releases one waveform at a time.

64. The lack of specific self-potential leads to a ground state.

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 (in the nuclear core of the components of the substratum.)

### **Equalisation of potentials**

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

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, the Purusha attains a firm background state.

66. State of balance by eliminating the potential to act.

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.

**Conversion of charge to mass**

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

The basic principle of acquiring a solid state or mass is by synchronising the components into a relatively static level by allowing the spin angular momentum to be converted to a potential state. The exchange or accumulation is through a self similar proportion or ratio.

68. The final synchronised, coherent, dynamic state of isolated nucleus.

The process of acquiring mass is given effect by superpositioning the interactive vortex like waveforms by changing it into a gradually diminishing cyclic interaction that reaches a synchronised and coherent state of balance within the first or primary activity boundary. Attaining the synchronised and coherent state eliminates delay, inertia or friction and allows this state to continue unhindered in complete freedom.

**Heirarchy of knowledge transmission**

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

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 its dissolution are explained.

70. The hierarchy of information transmission

This pure and exotic 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