
THE MATHEMATICAL SECTION

Background

In Physics , perpetual harmonic oscillation or motion is deemed to violate energy conservation principles and hence is considered impossible. But Sankya logic based on axioms and combinatorial mathematical procedures provides the proof for the existence of perpetual oscillatory states in the continuum of space and eternally provides the potential to sustain perpetual dynamism.

VOLUMETRIC PERPETUAL HARMONIC OSCILLATOR

PLEASE NOTE THAT ALL VALUES ARE DERIVED FROM AN AXIOMATIC VALUE OF TWO AND EVERY DERIVATION (SHOWN BELOW) EQUALS VALUES IN PHYSICS EXACTLY

The first axiomatic increase in value is $1+1=2$ units. The ratio $1/2$ is the fundamental standing wave ratio of a linear harmonic oscillator in a resonant state. The cube root of $2 = 1,259921 = k$ and $k-1 = .259921$. Therefore a volume will increase by 2 if the radius increases by $k-1 = .259921$. An axiomatic cycle consists of ten interactions within the interval of a single interaction. Derivation shown in data section.

Similarly a volume will increase by 7 if radius increases to two as $2^3 = 8$ volumes and $8 - 1 = 7$ incremental volumes. Product of two simultaneous cycles = $10 \times 10 = 100$ divided by twice the algebraic sum of sequential displacements in both forward and reverse directions of 7 (volumes) as $7 - (-7) = 14$, gives an oscillatory ratio PR. Perpetual interactive state or harmonic oscillatory state requires a ratio of PR to be maintained continuously. When a number of interactions occur within the same period as a single interactive cycle then it is considered to be a simultaneous interaction with a common centre of action and displays mass / density characteristics.

Simultaneous cycle = SMC Sequential cycle = **SQC**

$$\frac{\text{SMC}}{\text{SQC}} = \text{PR} \quad \frac{10 \cdot 10}{[7 - (-7)] + [7 - (-7)]} = 3.5714285714 \quad \text{PR} := 3.5714285714$$

HADRONIC STATES

The two particulate or fermion states of Proton (Pm) and Neutron (Pn) oscillate around a central coherent state PM that is new to Physics. Coherent states cannot be detected as a particle but only as a resonance. The change in mass as PM minus Pm during the expanding phase compared to the change in mass as Pn minus PM during the compressive phase must equal PR to maintain perpetual harmonic oscillation.

$$\frac{(\mathbf{PM} - \mathbf{Pm})}{(\mathbf{Pn} - \mathbf{PM})} = 3.5714285714 \quad \mathbf{PR} = 3.5714285714$$

An oscillatory rate of two changes of volume per cycle and a similar oscillatory rate of two changes of radial distance per cycle should maintain a resonant harmonic cyclic period in complete synchrony if both cyclic periods start at the same instant.. Since the radial distances of both types of volumetric increments start from the same central point or common centre of interaction, the ratio of both increments will always be the same in every cycle as 2/7. Therefore the product of PR and the ratio 2/7 should give the resonant ratio RS as the rate of decay 100/(100-2) interactions per cycle = 1.020408163264 etc. as the transcendental sum of power series of harmonic decay of oscillatory periods, to infinite numbers that progressively reduce the intervals to infinitely small periods. It is a perpetually dynamic state. Therefore the coherent nuclear state can not decay or its decay time is infinite or eternal.

$$\mathbf{RS} := \sum_{n=0}^{100} \left(\frac{2}{100} \right)^n \quad \mathbf{RS} = 1.0204081633 \quad \frac{10^2}{10^2 - 2} = 1.0204081633$$

$$\mathbf{PR} \cdot \frac{2}{7} = 1.0204081633 \quad \frac{(\mathbf{PM} - \mathbf{Pm})}{(\mathbf{Pn} - \mathbf{PM})} \cdot \frac{2}{(2^3 - 1)} = 1.0204081633 \mathbf{PROOF}$$

As shown above the ratio of the mass decrease of Proton Pm from the coherent static mass PM and the simultaneous increase of the Neutron Pn mass from the PM state is exactly equal to RS. The Proton mass change is over 7 volumetric displacements while the Neutron is over two volumetric displacements within the same oscillatory period of two cycles or the equivalent of a half-wave / standing wave ratio. The values of PM , Pn and Pm are derived through axioms and are not arbitrary, yet the dimensionless ratios match the experimentally measured values of Pn0 & Pm0 precisely and within the tolerance values.

$$\mathbf{Derived} = \mathbf{Pn} = 1.6749276458 \times 10^{-27} \quad \mathbf{PM} = 1.6744231791 \times 10^{-27} \quad \mathbf{Pm} = 1.672621512 \times 10^{-27}$$

$$\mathbf{Measured} \quad \mathbf{Pn0} = 1.67492728 \times 10^{-27} \quad \mathbf{PM} = \mathbf{notknown} \quad \mathbf{Pm0} = 1.67262171 \times 10^{-27}$$

$$\frac{\mathbf{Pn} - \mathbf{Pn0}}{\mathbf{Pn}} + 1 = 1.0000002184 \quad \frac{\mathbf{Pm0} - \mathbf{Pm}}{\mathbf{Pm}} + 1 = 1.0000001184$$

$$\frac{\mathbf{Pn}}{\mathbf{Pm}} = 1.0013787541 \quad \frac{\mathbf{Pn}}{\mathbf{PM}} = 1.0003012779 \quad \frac{\mathbf{PM}}{\mathbf{Pm}} = 1.0010771517$$

LEPTONIC STATES

The same interactive process of perpetual oscillatory state also prevails at a relative distance k from the centre, in the form of sequential interactive states displaying kinetic characteristics. These interactions have a common surface of interaction that displays charge characteristics or flux density. The three leptonic states, M_{ep} is derived from the PM state, M_e is derived from the Andhatamishra or Planck mass state and M_{ee} is the resonant balancing state which equals the current measured value. The ratio of the mass decrease of M_{ep} to M_e and the simultaneous increase of the M_{ee} to M_e mass is exactly equal to RS . The M_{ep} to M_e change is over 7 area displacements while the M_e to M_{ee} change is over $2/k$ or k squared radial displacements within the same oscillatory period of two cycles or the equivalents of a half-wave / standing wave ratio.

$$\frac{7 \cdot rs \cdot k}{2} = 4.4997180353 \quad \frac{M_{ep} - M_e}{M_e - M_{ee}} = 4.4997180353 \quad PR \cdot k = 4.4997180353$$

$$\frac{M_{ep} - M_e}{M_e - M_{ee}} \cdot \frac{k^2}{7} = 1.0204081633 \quad \frac{M_{ep} - M_e}{M_e - M_{ee}} \cdot \frac{2}{7 \cdot k} = 1.0204081633 \quad \text{PROOF}$$

$$\text{Derived } M_{ep} = 9.114058024 \times 10^{-31} \quad M_e = 9.11023372 \times 10^{-31} \quad M_{ee} = 9.1093838239 \times 10^{-31}$$

As Measured
in experiments
in Physics

$M_{ep} = \text{not_predicted}$ $M_e = \text{not_predicted}$ $M_{e0} = 9.1093897 \times 10^{-31}$

The above derivation indicates that leptonic states are area dependant flux densities displaying charge characteristics that act as a simultaneous surface of interaction at the distance k , at the same rate of 2 interactions per cycle but at distance k . Therefore, the variable states of P_m and M_{ee} must increase or decrease in the same ratio to maintain the standing wave ratio of 2 or half wavelength. The P_n or M_{ep} states must decay to maintain the resonant state. The decay must take place at the maximum rate by converting the incremental potential to kinetic energy. The reverse, compressive interactive state must convert the linear / angular momentum by synchronising the flux density to a simultaneously interactive mass density, which will show a reduction or apparent loss of flux density that equals the coupling constant. As all these factors change within one cycle which is in a resonant harmonic state of half a cycle, the reactive displacement never exceeds the interactive displacements and the resonant harmonic state exists perpetually.

When the perpetually oscillatory state is interrupted by an accelerative and out of phase interaction, interactive stresses created by the breakdown of the coherent state, transmigrate in a wave form. When the rate of acceleration exceeds C , photons or stress quanta are radiated in a holographic form as a particle. The wave characteristics exist as two states. The simultaneous phase represented C^x and the sequential phase as C^{1-x} transmigrate as a wave and the product equals C . In a balanced state it is $C^x / C^{1-x} = C^{x^3}$ equals the impedance in space as shown below

$$\text{IMPEDANCE IN} \quad \frac{100}{(k - 1) \cdot rs} = 377.0375659826$$

The plancks constant is again derived from the PM state to show unification.

$$\frac{\text{PM} \cdot \text{Px}}{\text{C}} \cdot \left[\frac{(2 \cdot \pi)^2 - (\mathbf{k} - 1)}{7} \right] = 6.6261986282 \times 10^{-34} \quad \mathbf{h} = 6.6260755 \times 10^{-34}$$

PROOF

The magnetic state is created at a resonant oscillatory rate of two cycles per period in which the maximum coherence at maximum stress density is attained. The atomic mass number at which perpetual magnetic resonance will be maintained is given below which is equal to Fe atomic mass number 55.847 and element number 26.

$$\frac{\left[\text{Rp}^3 \cdot (\text{C}^{1+\mathbf{x}})^3 \right]^{-1}}{\left[\frac{1}{(2 \cdot \text{rs})^3 - 1} + 1 \right]^3} = 55.8670172024 \quad \frac{55.8670172024}{2 + \frac{1}{7}} = 26.0712746945$$

The PM forms the neutral or balanced state between the limiting mass Mps (Planck) at the highest density and the rest energy state of the Neutrino, Plancks constants and the Planck length. The ratio between Mps and PM is angular converted to mass as potential in the form of hidden 'dark matter'. "my" is the fundamental mass value in Sankhya and its energy value is equal to Plank's constant. Shown below, the potential driving ESP and Astrological factors is shown to be only 0.266 of the measurable Planck value and is therefore hidden. But in terms of the frequency spectrum it covers 1.3 E+17 interactions per second, which is a very large mass interval driving the parapsychological phenomenon yet it cannot be detected by instrumentation because it acts simultaneously- that is it is a change in potential but not discrete enough to cause a change in frequency .

$$\text{hidden dark mass} \quad \frac{\text{Mps}}{\text{PM} \cdot \text{Px}} = 6.2826645825 \times 10^{17} \quad \text{acos} \left(\frac{1}{\mathbf{x} + \mathbf{x}} \right) \cdot \left[(10^2)^3 \right]^3 = 6.2831853072 \times 10^{17}$$

$$\text{Hidden dark energy} \quad \frac{\text{Ne} \cdot 7}{\text{my}} = 4.9605931212 \times 10^{17} \quad \frac{\mathbf{h}}{\text{my}} = 4.9278416147 \times 10^{17}$$

$$\frac{\text{HiddenMass}}{\text{Hiddenenergy}} = \frac{\text{Mps}}{\text{PM} \cdot \text{Px}} \cdot \frac{\text{my}}{\text{Ne} \cdot 7} = 1.2665147955 \quad \frac{10^2}{(2 \cdot \pi)^2} \cdot \frac{1}{\mathbf{k}^3} = 1.2665147955 \quad \text{PROOF}$$

$$\text{Planck length } L_p = L_p := \frac{\text{my}}{7} \cdot \text{C}^2 \quad \text{or} \quad \frac{\text{PM} \cdot \text{Px}}{\text{C} \cdot 7} \quad \text{Proof}$$

$$L_p \left[((2 \cdot \pi))^2 - (\mathbf{k} - 1) \right] = 6.6261986282 \times 10^{-34} \quad \mathbf{h} = 6.6260755 \times 10^{-34}$$

$$N_e = 9.5287340542 \times 10^{-35} \quad \text{my} \cdot C^2 \cdot \left[\frac{(2 \cdot \pi)^2 - (k - 1)}{7^2} \right] = 9.4659980402 \times 10^{-35}$$

$$\text{Density ratio } T_c \quad T_c := \frac{(2 \cdot \pi)^2}{k - 1} \quad \frac{M_{ep}}{PM} \cdot \left(\frac{7}{k - 1} \right)^2 \cdot \frac{10^2}{k - 1} \cdot \frac{1}{T_c} = 1$$

RATIO OF TRANSMIGRATION per CYCLE	$\frac{2 \cdot \pi}{10} \cdot 10^{18} \cdot \text{my}$	$\frac{M_{ps}}{PM \cdot P_x}$
	$\frac{\quad}{N_e \cdot 7} = 1.2666197678$	$\frac{\quad}{N_e \cdot 7} = 1.2665147955$
	$k + \frac{1}{T_c} = 1.266504927$	$k + \frac{1}{T_c} = 1.266504927$

The foregoing algorithm is scale invariant & self similar. It can be applied to any field of components that are in a coherent and confined state. The components that form space are in a coherent, dynamic and perpetual state of balanced activity. That is the reason the interactive formulation shown above work correctly.

PIONEER ANOMALY

Photons as 7Nes travel as a wave with a forward and backward oscillatory motion and therefore the loss in distance is one cycle (or 1 metre) in 36.6 years of travel time.(Pioneer Anomaly)

$$\left(\frac{k - 1}{c} \cdot \frac{\text{yr}}{s} \cdot 36.5497624716 \right) = 1.0000000147$$

The proof of the above is in an enigmatic behaviour of the nuclera spectrum where a the perpetual oscillation is called the self energy of the Vacuum and its value is indicated by the frequency of oscillation called the Lambshift, measured as 1057.862 Megacycles/sec. The theoretical value is shown and the measured value is different for axiomatic reasons. The existence or the mass value of PM is not known in Physics because any measurent needs 7 plancks constant of energy to register a frequency count and the PM is hidden within this value.

$$\frac{C}{\left[\frac{[P_n - (PM)]}{[(PM) - P_m]} \right]} = 1.0591998819 \times 10^9 \quad \text{Theoretical}$$

$$\frac{1.0591998819 \times 10^9}{1 + \left(\frac{k - 1}{7} \right)^2} = 1.0577415164 \times 10^9 \quad \text{Experimental}$$

NEUTRINO VELOCITY GREATER THAN LIGHT

When Ne is accelerated it is delayed by a number of cycles and since 7 Nes must be radiated within one cycle the delay is 7 times as

$$\left[\left[\left(\frac{k-1}{7} \right)^2 \right] \cdot \left(\frac{10^2}{k-1} \right) \cdot \left(1 + \frac{1}{k-1} \right) \right] \cdot 7 = 17.9988721414$$

Hence Photons will be delayed by 17.998 cycles / second as

$$\frac{\left[\left[\left(\frac{k-1}{7} \right)^2 \right] \cdot \left(\frac{10^2}{k-1} \right) \cdot \left(1 + \frac{1}{k-1} \right) \right] \cdot 7}{C} \cdot 10^9 = 60.6889099213$$

Neutrino transmigrates 60.689 billionths of a second faster because light photons are actually 7 Neutrinos accelerated simultaneously and is delayed. In a stable oscillation both forward and backward displacement equalise but on acceleration it becomes unequal and there is a net delay per oscillatory cycle

GENETICS CELL STRUCTURE FOLLOW SAME PRINCIPLE.

Cell structure mass is similar to the magnetic state of the iron molecule but at a higher density level and is subject to the same single unification law

$$\frac{(k-1)^3 \cdot \left(1 + \frac{1}{Tc} \right)}{PM \cdot C^2} = 1.2001545895 \times 10^8$$

Hence a cell mass is about 120 mega daltons or nucleons

Cell Transport is similarly carried out by the same Neutrino or (Photon/7) stress current as follows

$$\left[\left[\frac{PM - \left[\frac{1}{\frac{C^{1-x}}{Kx} \cdot \left(1 + \frac{1}{Tc} \right) \cdot C^{\frac{2}{3}}} \right]^3}{\left[Ne \cdot (k-1) \cdot \frac{C^x}{(\sqrt{3})} \right]} \right] \cdot \frac{1}{\frac{(k-1)^3}{2} + 1} = 1 \right]$$

Hence cell transport stress currents are single neutrino streams

The above derivations have tremendous significance in understanding living processes for all are covered by the same laws governing the macro universe.