

## Goal of a correct theory

I quote from page 167 of the book "Concepts of Particle Physics Part one" by K. Gottfried and V. F. Weiskopf: "Nevertheless, it would be aesthetically appealing, to say the least, if one could construct a theory that incorporates all the known interactions in an integrated fashion. Two paths towards that end are being pursued at present. One conjectures that gravity is not due to an independent quantum field, but is a cooperative effect arising from the Fermi and Bose fields that are already familiar to us. This ingenious approach has not been formulated in a really satisfactory fashion.

The second approach to incorporating gravity is, in some ways, more conventional, in that it assumes gravity to be due to a dynamically independent field. It exploits the novel concept of supersymmetry, which relates fermions to bosons, in the sense that certain fermions and bosons appear together in multiplets. When Einstein's requirements that the theory be invariant under arbitrary coordinate transformation, is imposed on a theory that is supersymmetric, what is called supergravity emerges. (1984)". From page 543 Part two, "Can some grand principle---some wondrous elegant set off equations---encompass all of Physics? Einstein's theory has always been viewed as the intellectual structure that best epitomises the goal that physics seeks: an axiomatic basis of austere but compelling force which, when elegantly formulated, leads inexorably to phenomena that are complex and that were previously inexplicable or not even anticipated." (note added 1986).

### Notes on Sankhya as the correct unified field theory.

To the question does Sankhya theory meet the goal voiced by those eminent scientists? The answer is that it not only positively meets those criteria but has added an absolutely profound and elegant principle of self similarity and scale invariance which is a direct outcome of an axiomatic foundation. The esoteric inclusion has not only simplified the range of desirable goals visualized by scientists but has exalted this theory into the realm of the impossible, according to physics, by deriving the perpetual harmonic oscillatory state (PHO) as the permanent and fundamental base for the entire range of dynamic states existing in nature eternally. While physics was forced to abandon the concept of a substantial space because experiments failed to detect expectations, the derivation of the PHO state, that combines the Fermi and Bose fields, into perpetual harmonic oscillatory multiplets, as a real foundation. It overcomes the Relativistic limitations by creating all manifestation as a hologram on a dynamic substratum, sustained at an exact and constant cyclic rate. The foregoing also provides its internal proof, through austere and inexorably accurate formulations, derived purely from numerical axioms. As a result, the derivation of the tightly constrained formulation commences from the very elemental axiom to define the boundary of the observable universe in one integrated series of numerical algorithms. Sankhya's outstanding contribution to the Standard Model, as the structure of physics, is the provision of solutions to the latter's theoretical deficiencies & anomalies, detected over its past history. Above all, Sankhya removes the intellectual conundrums that experimental physics has created, that all manifest phenomena, from the ubiquitous gravitational force onwards, is only due to the change in the oscillatory rate of the PHO holographic state that reacts to regain its balanced, axiomatic cyclic state by the transmigration of stresses from a higher to a lower count state.

### Abstract of Sankhya theory

Sankhya is a unified field theory based on a perpetually, harmonic, oscillatory state (PHO) forming the dynamic base for all manifestation. It is simple, logical & numerically consistent with all experimentally verified parameters. It is based on numerical axioms and does not violate the principle of causality. It is a non-dimensional and scale-invariant formulation, based on the principle of self-similarity which is universally applicable. The only "unification controlling" parameter is cyclic time, operated as the single critical variable in three modes of compression, resonance and expansion which is identified with volumetric space. Space, as the substratum of all phenomena, is defined in identifiable numerical terms, consequent to its axiom based foundation. Sankhya is a complete theory that corroborates all modes of theoretical derivation, every type of experimental finding & observational experience that forms an element of physical reality, including extra sensory, psychokinetic & undetectable phenomena caused by gravitational interactions. It is a holistic and holographic theory.

As its derivational logic is based on numerical axioms, the complete proof for every theoretical, experimental and predictive proposition is extractable from within its formulation. All the results from its formulations are precise, confirmable through alternate modes of verification and its numerical uncertainty is limited only to the applied method of calculation. It uses combinatorial mathematics and treats all variables, as ratios of factors of proportionality. The proof or the completeness of Sankhya as a correct unified theory does not depend on externally derived inputs, observational parameters or coefficients of proportionality. It generates its proof through its internal algorithms based on axioms following the principle of self-similarity and scale invariance. Its uniqueness lies in its ability to derive every measurable state in real space and time from its internal algorithms, without external inputs, measured or derived. As a result of its precise, correct, complete and self proving capabilities, it establishes the principle of predestination as a universal operational factor.

As a preview, it is shown here that in the harmonic oscillatory state, the instant of colliding compression has a ratio of  $1/x$  whereas the period of rebounding expansion is  $1+x$ . The oscillator operates resonantly when  $1/x = 1+x$  as then  $x+x^2 = 1$  and that is maintained if  $x = 0.618034$ , the golden mean ratio, leading to self similarity and scale invariance as the summa  $x^{1-\infty} = 1+x$  or  $1/x$ . Similarly the cyclic resonant state  $2^n \pi 10 = A_n$  as  $n \rightarrow \infty$  in the same mode. The constant PHO oscillating frequency in space is derived by the factor  $2/x^3 = 8.47214$  as the log value to the cyclic base of 10 cycles. Hence  $C_s = 10^{8.47214} = 296575966$  cycles per second of ten cycles as the axiomatic, constant oscillatory cyclic rate of interactions in space.

The velocity of light photons or EMW quantum on Earth is shown to be governed by the gravitational potential of the Solar field, as the ratio of Sun's radius to Earth's orbital radius, (as the averaged) ratio is  $1/213.4586 = 0.004684$  and  $C = 10^{8.47214+0.004684} = 299792458$  m/s.  $C$  equals the measured value of light velocity (or frequency at a meter wavelength) by Michelson Morley and others, showing the expected blue shift in frequency at a meter wavelength. Extrapolating the above to derive the value of  $C_s$  at the Sun's surface has  $R_s/R_e = 1$  and yields  $10^{8.47214+1} = 2965759667$  or the frequency is 10 times higher at the surface, thus creating the advanced potential of 9 times higher frequency so that the retarded wave functions at  $C$ , as the photon velocity, at a meter wavelength, completes the 10 interaction in a cycle. The proof for the above lies in the enigmatic fine structure constant ratio of  $1/137.036$  for it is a derivative from the 9 fold increase of frequency at source of the radiative interaction.

It is shown that any radiation of light from any source must follow the same interactive process. Similarly it is shown that light from distant galactic sources too show a blue shift compared to  $C_s$  but a red shift if  $C$  is used, confirming that the potential difference at source acts as the advanced potential accelerative function and the photons are then created as a retarded wave function. On extrapolating this derivation into Cosmology, the solutions to the anomalous experimental findings clear the process of gravitation as a resonant phenomenon similar to the hydrogen atomic spectrum.

The tabulated preview of the critical parameters, derived purely from basic axioms, is given below as comparison to findings in Physics. Because the axiomatic derivations follow an integrated pattern, several gaps crop up in physics which hides the combinations of fermion & boson multiplets between the nuclear core and its boundary. The phenomenon of gravitational acceleration, starts only when the particle mass density rises to 2 from the critical matter density state in space. The foregoing simplifies the structure of phenomena as being leptonic with three degrees of freedom in fields existing in the critical matter density spectrum, and converging into bosonic states where the density remains between one and two, and above which the fermionic states come into existence initiating gravitational acceleration to create the hadronic states with two degree of freedom, culminating into the singularity with no degree of freedom but creates a state of merged interactions as quarks in asymptotic freedom.

However the differences in the adjacent PHO oscillatory states initiates the transmigration of stresses from MLY to the Ne or Neutrino level and is radiated as photons when seven Neutrinos are accelerated within the same cycle, due to the rise from Cs to 10Cs from colliding stresses at source of radiation.

*Axiomatically derived values of stable states in Sankhya & its measured equivalents in Physics*

Sankhya	Aikantha	Mahad	Prakriti	Vikriti	Vikharo	Vrithi	Moolaprakriti	Abhavath
Physics	Singularity	Quark	Hadrons	Lepton	Photon	Neutrino	?	Vacuum
Sank: kg	0.91498	2.20369E-8	1.6749E-27	9.1093E-31	6.67E-34	9.5287E-35	1.3446E-51	3.631E-25
Phys: kg	?	2.17E-8	1.6749E-27	9.1093E-31	6.626E-34	?	?	?
SankSymbol	Kx	Mps	PM	Mep	7 Ne	Ne	MLY	DD

Moolaprakriti (MLY) is the transmigratory stress value created by the perpetual harmonic oscillatory state in space and reaches the limit as Ne forming the spectrum of Neutrinos. When Cs is accelerated 10Cs Seven Nes are radiated simultaneously & the photon or quantum is created

*Sankhya Perpetual Harmonic Oscillatory state classification of particle states and its equivalents in Physics*

Stable	stable	resonant	stable	resonant	stable	resonant	Stable	resonant	Stable	resonant
AF state	Fermion	Boson	Fermion	Boson	Fermion	Boson	Fermion	Boson	Fermion	Boson
Mahad	Prakriti	Prakriti	Prakriti	Rajastate	Vikriti	Vikriti	Vikriti	Vikharo	Vrithi	M'prakriti
Quark+/-	Hadron+	Hadron	Hadron-	Boson	Lepton+	Lepton	Lepton -	Photon+	Neutrino-	quantum
Mps	Pn	PM	Pm	DD	Mep	Me	Mee	7 Ne	Ne	MLY
Pmass	Neutron	?	Proton	Higgs?	?	?	Electron	Pl. Const	Neutrino?	?

Mps = Planck Mass. AF = Asymptotic Freedom

Sankhya	Pn	PM	Pm	Mep	Me	Mee
Derived	1.67492e-27	1.67442e-27	1.67262e-27	9.11405e-31	9.11023e-31	9.10938e-31
Physics	Neutron	?	Proton	?	?	Electron
Measured	1.67492e-27	?	1.67262e-27	?	?	9.10938e-31

**SAMPLE DERIVATION OF THREE CRITICAL MASS PARAMETERS FROM AXIOMS TO SHOW THE LOGIC OF SANKHYA**

Gravity starts at volumetric density 2. (Values derived from axioms.) Gn=Newton's G. {Gs=(C<sup>x</sup>)<sup>2</sup>/2 cycles per sec<sup>2</sup>} Tc=(2<sup>1/3</sup>)/2<sup>1/3</sup>-1

Particle	Mass kgs	Radius m	Acceleration v/t	Velocity m/s	Density kg/m <sup>3</sup>	Time t sec	Gs= 1/Gn
Singularity x	0.91498793ξ	½(ratio)	NA	NA	2 <sup>3</sup> = 8(ratio)	Cycle	2 <sup>2</sup> = 4(ratio)
Mps Planck)	Lp <sup>3</sup> Dp	Lp = C x tp	7 / MLY	C = 10 <sup>8.47214</sup>	Dp=(C <sup>1.618</sup> ) <sup>7</sup>	tp =( GDP) <sup>0.5x</sup>	Dpxtp <sup>2</sup> =Gs
values	2.2036944 E--8	1.689559E--35	<b>5.20593E+51</b>	2.9657596E+8	4.569E+96	5.6968E - 44	1.48287983E+10
PM (nuclear)	Rp <sup>3</sup> Pd	Rp	Pg	Vp	Pd=(C <sup>x</sup> ) <sup>3</sup>	Pt=(Gs/Pd) <sup>5</sup>	Pd Pt <sup>2</sup> =Gs
values	1.674423E--27	5.089059E--15	<b>4.35997E--9</b>	4.71E-12	1.270435E+16	1.08038E-3	1.48287983E+10
Sun (Stellar)	Rs <sup>3</sup> Tc <sup>2</sup> (2 <sup>1/3</sup> -1)	Rs=C(7.14/2) <sup>2/3</sup>	Gsun	Vs=Rs/Ts	Ds=Tc <sup>2</sup> (2 <sup>1/3</sup> -1)	Ts=(Gs/Ds) <sup>5</sup>	Ds Ts <sup>2</sup> =Gs
values	1.995E+3015725	6.92944.4R+8	2.80199718E+2	4.4064E+5	5.99622638E+3	1572	1.48287983E+10

**Note:Potencial change= the acceleration at Planckmass Mps (Fermion) and Nucleon PM (Boson) both interact simultaneously .**

New to Physics

The combined potential and kinetic phases of Perpetual Harmonic Oscillator (PHO) algorithm:

$$[(Mps Cs)/Kx] = 7.142856 = [ PM - Pm ] / [ Pn - PM ] + [ Mep - Me ] / ( [ Me - Mee ] 1.259921)$$

Critical differences in principle exist in Physics and Cosmology compared to Sankhya.

1. The principle of eternal dynamism as the fundamental cause of all activities in the real Universe is yet to be derived in Physics.
2. In Physics, the solution to solving the "problem of the harmonic oscillator" still exists.
3. Logical rigor needs the identification of space as the real foundation with definable physical properties in Physics.
4. Physics needs a theoretical unification paradigm based on principle of self similarity and scale invariance.
5. The single major caveat in Physics is the concept of dimensionality. Space is volumetric and using linear parameters to measure volumetric changes leads to ignoring the consequent change in area, leading to grave errors of concepts

Website : <http://sankhyakarika.webstarts.com/?r=20111129083612>

<http://sankhyakarika.webstarts.com/index.html/>

gsvasktg@gmail.com

G. Srinivasan.

Kotagiri-India.