

## **Genesis of the Genesis**

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The electron is indeed the cornerstone of particle physics in terms of the interface between the 'manifestation' and the (metaphysical) 'creation'.

As I have previously pointed out, in the 'real theoretical physics community', membrane physics is the 'only game in town'. Even Weinberg is 'coming around', namely because of the 'proofs' of the 'mirror dualities' at Princeton in 1996 by Greene, Aspinwall and Morrison and their subsequent applications in statistical thermodynamics (which 'proved' the Hawking thermodynamics of Black Holes).

Yet Susskind's zillions of string solutions are a 'red herring'. The problem with the original string theory were the five classes (plus gravitational supersymmetry) in 10D. Witten's realisation of the M-space (via class IIA becoming 2D from the 1D string) 'solved this' in the umbrella of M-theory, but because the underpinning principle of M-space is unknown, the zillions of solutions remained.

Using something called BCS states of a non-perturbative (series expansions DO NOT converge to limits) approach, however has made some good ingress in crystallising the HE-8x8 class to be the class most likely to lead to a unique solution.

The original string theory was metric dependent and so required a space-time background for the strings to move in. Removing the 'singularity' of the Big Bang by 'Planck-smearing' however indicated that the strings themselves should be the space-time they are moving in. This then led to a synthesis of sorts between the old string theory and the quantum loops of Smolin and Ashtekar's 'parallel vector transport'. Many people think that those models compete against each other, but they actually converge in the ideas underpinning the formalisms.

BUT the 'underpinning principle' of M-space is still missing and it is this, which 'frustrates' the pundits. They KNOW that M-theory is 'right' and that the 'Unified Field' contains the 'branes' both AS space-time and the transformations of energy and matter contained therein.

The KEY to M-theory is the self-transformation of the five classes and an ALREADY present super-symmetry (there are NO SUSY particles as such).

The basic dilemma is the baryo- and lepto-genesis immediately following the Big Bang (Weinberg's 3 minutes say).

Postulating the energy of the Big Bang to derive from a dispersing Mass seed (say the 5 pounds of Alan Guth) has led to the matter-antimatter symmetry (as both have positive mass content). This then becomes a bosonic (GUT) super-force termed the X-AntiX-Boson coupling to matter and antimatter respectively to then (under the appropriate temperature evolution) decay into

fermionic neutrons, protons, electrons and their antimatter counterparts.

Then of course the asymmetry between matter and the (naturally non-observed) antimatter becomes a dilemma and the photon-baryon ratio (1:1 billion) is invoked to allow pair-annihilation to eliminate the antimatter with a slight matter excess.

And from this then the standard cosmology continues in nucleosynthesis and the formation of matter agglomerations under the thermodynamic arrow of entropy and so on.

This then is the standard cosmology and it is just about 100% correct in terms of the temperature background, the so called CMMBR. But it is fundamentally 'flawed' in its presumptions about the Big Bang mass seed.

There was no X-AntiX-Boson coupling, but there was the XL-super-string, namely class HO32 at an energy of so  $2 \times 10^{15}$  GeV reduced in a factor of 5000 from the Planck-String of so  $10^{19}$  GeV.

The pundits do not know this (or have not yet published); but this heterotic brane energy is the unification force, which split Gravity from the yet unified StrongElectroWeak super-force at that energy. To experimentally probe this energy, the boson temperature is so  $2 \times 10^{28}$  K for a cross-section of  $10^{-31}$  meters.

But knowing this, now allows this XL-string to bifurcate into two fermionic parts - one which would later (under utility of the electro-weak decoupling of the Higgs template at about  $3 \times 10^{15}$  K) become the quark-X-fermion and the other the lepton-L-fermion.

So where is the antimatter? There is none, because the decoupling of the XL-string derived from a non-massive 'Goldstone Bosonic' super-coupling between the 'higher' string-classes. {The order in energy is: I=Planck; IIB=Monopole; HO32=XL; IIA=Cosmic-Ray; HE64=Weyl}.

This 'higherD' string coupling is bounded by the INHERENT SUPERSYMMETRY, previously mentioned.

This inherent super-symmetry is defined BEFORE the strings became classified and it is massless in the Goldstone Bosons of the preBig Bang and so are part of the Inflation-Scenario, which lasted from Planck-Time to Weyl-Time (about  $10^{-44}$ - $10^{-31}$  seconds).

The Planck-Time classifies class I and so the Planck-Boson as a Goldstone Boson to be self-coupled to its anti-Goldstone state. Those two states define the modular duality between the so called 'vibratory high energy high frequency short lambda' and the 'winded low energy low frequency large lambda' self-states in then 'photonic energy'.

The question is however where did the UNDIFFERENTIATED Planck-String come from? The Planck-String itself emerged from the primordial Genesis-Boson (you might term it the real 'God-Particle' and not Lederman's Higgs Boson). The Genesis Boson is defined in an 'algorithmic' temperature of so  $7 \times 10^{37}$  K at so  $7 \times 10^{24}$  GeV in NOSPACETIME - that is BEFORE the Planck-Boson allowed the emergence of space-time-matter parameters.

To understand from where this Genesis-Boson came from requires not theoretical physics or convoluted mathematics, but the 'Consciousness existing without space-time'. So this becomes a 'philosophical' and 'spiritual' quest in allowing the 'After the space-time Fact' to be as one with the 'Before the space-time Fact'.

It suffices to say here, that the Genesis-Boson is defined from 'algorithmic constants' and series, which underpin the cosmo-genesis, such as the five classes of super-strings (mapped onto 'quasiperiodic' five-folded symmetries such as the pentagon and the Platonic solids).

So what happened to 'create' the Planck-string? You both should like this - there was a Goldstone Super-symmetry between two self-states, which can be understood as non-mass coupled Photonic Radiation and Anti-radiation. Today, the photon is its own antiparticle with either polarity and say defined in Maxwell vectors and Bose-Einstein statistics.

BEFORE the Planck-Time, there existed a right-polarised Gauge Photon and a left-polarised Anti-photon as forms of the Genesis-Boson. The simple sinusoidal circular waveform connecting the two flipped polarity at the halfway point (180 degrees in a radially and so space independent formulation).

The dynamics (in ALGORITHMIC NOSPAC) so set up a 'Standing Wave' akin the Infinity-Symbol with self-inflection nodes at 0, 180 and 360 degrees. This vector dynamics was completely super-symmetric with all dynamical parameters of energy and momentum (as defined today in space-time-matter) conserved.

EITHER only ONE Infinity symbol is traced by the Standing Wave by a MUTUAL INFLECTION at the 180 degree node in a multi-cyclicity; OR the ONE Infinity symbol is supplemented by infinite extension (of the number line) in the 180 degree or pi-radian intervals of the  $\sin X$  waveform beginning at the 0 node and the  $\sin(-X)=-\sin X$  waveform beginning at the MIRRORED 360 degree node.

This of course also becomes the self-state of the universe in the Standard Model preceding the Big Bang as the singularity.

Then the super-symmetry BROKE in say the left node at 0 degrees NOT inflecting towards negative infinity BUT RETRACING the path of  $\sin X$  in clockwise chirality LIKE the 360 degree node, which DID inflect AS  $\sin X$ .

So now a GREAT VIOLATION of symmetry has occurred, as two clockwise angular momentum vectors are required to become balanced or REHARMONIZED or RENORMALISED by a double-spinning anticlockwise vector. This is the Birth of the Graviton from the foundations of string theory by Schwarz and Green and Witten.

Ok now the templates of the Photon-Anti-photon gauges crystallize. The original Photon was right-polarised and remains right-polarised in its inflection at the 360 node. The original Anti-photon was left-polarised but in NOT inflecting at the 0 node, also became right-polarised AND SO CAN BECOME SUPPRESSED in favour of a NEW CREATION (namely the fermions from

the bosons in the inherent super-symmetry).

But we are not there yet.

The righthanded photon gauge and the right-handed anti-photon gauge are now harmonised with the double left-handed graviton. {To picture this- simply plot the graph  $\sin(3x/2)-\cos(3x/4)$  as a function  $f(x)$ . The sine wave represents the right-handed photon moving to the right and the cosine wave represents the graviton moving to the left with the anti-photon suppressed}.

The important point of those gauges is that they are COLOURCHARGED. This is the reason for the strong nuclear forces of the gluons and the quarks deriving from the so called Higgs Template, which contains all of the gauges in the colour charges in SU3 unitary symmetry.

A normal (mass produced by the acceleration of Coulombic ELECTRIC Charges) photon is NOT colour-charged and therefore IT becomes its own anti-state particle.

Ok, some 'nitty gritty'. The suppressed anti-photon gauge has its colour charges 'mirrored' (Parity or P-symmetry) in those of the expressed photon gauge. The former is mathematically labelled in the permutation state BGR=GRB=RBG; whilst the latter is RGB=GBR=BRG. These two states are anti-cyclic relative to each other in Quantum Relativity.

So this should allow you to visualise or perceive the Goldstone Eigenstate of the Universe before the Planck-Time (setting the initial and boundary conditions for the material universe to emerge from following Inflation in the Quantum Big Bang).

You have 'three' gauges RGB-photonic (spin+1), BGR-anti-photonic(spin+1) and BGR-gravitonic (spin-2) interacting to form the Goldstone Cosmogony. Now the quantum spins cancel, but one of the BGR's is now in excess, so demanding another harmonisation to conserve the super-symmetry.

Now 'mixing' colour-charges, say in superposing trisected 120-degree areas of a circular partition will give  $RGB(+1)+BGR(-1)=MGGM(0)=CRRC(0)=YBBY(0)=VPE(0)$  with the quark-anti-quark definition of the Mesons say in colour-anti-colour triplets (Red-Cyan; Green-Magenta; Blue-Yellow). Vortex-Potential-Energy is the label for the VPE of the mixing of the wave-functions of the colour charges and is equivalent to the ZPE of a 'Virtual Heisenberg Background matrix of energy say.

Three colours or anti-colours (in equal proportions) will give a 'pure' radiative White ( $E=hf$ ) or a 'pure' massive Black ( $E=mc^2$ ) eigenstate and any colour-anti-colour doublet will do the same. This becomes the observed and measured 'appearance and disappearance' of the subatomic particles in the Unitary Symmetries.

Ok so the photon and the graviton would neutralise into the VPE(0), if the graviton would have the spin of the original anti-photon. It does not but replaces it in the BGR template.

The original anti-photon actually carried an RGB(-1) template inflected to BGR(+1) at the 180 node and then REFUSED or LASUFERED (anyone get the hint to Ezekiel.28.14-18&Isaiah.14.12-14); but on Purpose (otherwise the Gravity of the 'Grave' and NO physical

universe could have emerged from the super-symmetry of the gauges); to mirror the inflection of the RGB(+1) to BGR(-1) to RGB(+1) cyclicity of the gauge photon. So another NEW template must be 'created' or emerge from the NATURE of the 'Genesis-Boson'.

We require an RGB(0) as the spins are conserved and this then is known today as the Gluon gauge. Now we can SUPPRESS both the Anti-photon BGR(-1) and the Gluon RGB(0) in the VPE(-1)=ZPE(-1) BUT NOT in spin.

Now I did not mention what happened at the original RGB(+1)+RGB(-1) colour-charge mixing; the one which 'created' the Infinity symbol. Analysis will show you; that the 60- and 120 degree points will create an YCM(+1-1) template, which one can term Matter YCM(0) and the 240- and 300 degree points will make the Antimatter MCY(0).

The dilemma with the scalar (spinless) Gluon now ALLOWS or INDUCES the HIGGS BOSON to assume its Goldstone precursor self-state as HB (0) as a doubled- or squared {because  $x^2=2x$  for unique solution  $x=2$ } YYCCMM(0) self-state for matter and as MMCCYY(0) for antimatter to become defined.

So now we have 6 particle template gauges interacting:

Photon RGB(+1)+Anti-photon BGR(+1)+Graviton BGR(-2)+Gluon RGB(0)+HB YYCCMM(0)+HB MMCCYY(0)

The two RGB+BRG and the HB-AntiHB all reduce to the VPE(0); EXCEPT the non-spinning Gluon cannot interact and must somehow become SPININDUCED.

This scenario above IS LEADING INTO THE CAUSATION of the Quantum Big Bang.

The first particle to be rendered superfluous is the Anti-Higgs Boson HB MMCCYY(0). Instead the spin-induction BIFURCATES the HB YYCCMM(0) into TWO YCM(+1)+YCM(-1) FERMIONIC SUSY-Strings. This sets up the 'Dark-Matter' Gauge of the RMP YYCCMM(0) in a DINEUTRONIC self-state  $2\{YCM(+1/2)+YCM(-1/2)\}=NEUTRONIUM$  (as Gamow's primordial YLEM matter).

As can be seen - NO antimatter is necessary, but the super-symmetry derives from the (later to emerge) Parity violation of the weak interaction coupled to the weak-ons as mass-and spin-induced Higgs-Bosons.

The cosmogony has now entered the Planck-Energy realm except for the missing template for the still outstanding spin induction of the Gluon gauge.

We have the matter gauges in the form of a BOSONIC NEUTRONIUM (which is Parity violated because of the definitions of the L-Boson string in ordinary beta decay and the HB mass induction - yet to occur). So the matter templates YCM(half-spin) become COUPLED to the Graviton BGR(-2) in their inherent supersymmetry in the SUPPRESSION of the Anti-photon BGR(+1) in the colour charge template BGR and the Antiphoton's suppression allowing the MASS-Inertia Induction to occur in the SPININDUCTION of the HB YYCCMM(0) as a WEAKON YYCCMM(+1). {The weak-on for antimatter MCY(half-spin) is of course

MMCCYY(-1) and as characterised by say the well studied beta plus decay}.

Here then is the KEY. The Spin-Induction of the HB YYCCMM(0) as a W- YYCCMM(+1) simulates the GLUON's spin induction as a RGB(+1) then requiring the original 'Dark Matter' template RMP=RestMassPhoton YYCCMM(0) to assume the opposite spin-state for the OVERALL SUPERSYMMETRY to hold. Then the total 'Unified Gauge Field' becomes:

1) Photon-Gauge RGB(+1) in long-range Electro-Gravitational unification with the Graviton-Gauge BGR(-2) and where the Graviton is coupled to the SUPPRESSED Anti-photon-Gauge BGR(+1) in colour charges but so becomes spin harmonised and as GravitoWeak coupling.

2) Gluon-Gauge RGB(+1) now harmonises with the colour charge of the Gauge-Photon in ElectroStrong coupling and couples as nuclear short range interaction to the RMP-Gauge YYCCMM(-1) in the 'Consciousness Unification' of the VPE=ZPE and so by and through the Weakon gauge definitions.

3) The Unified Field is established in conservation of spin momentum and colour-charge mixing and NOW the ENERGISATION of the Quantum Big Bang from its string hierarchical Goldstone Precursors can become implemented.

This 'Energization' renders Parts of the ZPE=VPE Goldstone Boson (or Higgs) Energy as manifesting in the NEUTRONIUM  $2\{YCM(+1/2)+YCM(-1/2)\}$  and as a simple constituent of the HIGGS BOSON TEMPLATE.