

## VI: Mathimatia A: The Origins of the Mathimatia and Four Pillars of Creation

### Definiton to Inflaton to Instanton to Continuon - Four Pillars of Creation

The creation of self-emergence of the universe in energy  $E=mc^2$  can be described in four epochs or time intervals.

**The Definiton** would encompass a potential for information to manifest any data required for the birth of a universe from a prior premise of the information potential existing in a space less and timeless state of selfness, beingness or eigenstate.

It is from the Definiton, the fundamental constants, parameters and numbers, such as lightspeed 'c' and Planck's quantum constant 'h' derive from.

The mathematical nature of the cosmogenesis so finds its 'fire in the equations'; as Stephen Hawking famously said in the 'A Brief History of Time' {Chapter 12; 1988}; from the nature and way the 'laws of nature' became defined in the Definiton.

The Definiton so focused on a finetuning and interrelationships between mathematical numbers and concepts, transforming themselves into physically applicable parameters centered on the concept of Energy.

Even if there is only one possible unified theory, it is just a set of rules and equations.

**What is it that breathes fire into the equations and makes a universe for them to describe? The usual approach of science of constructing a mathematical model cannot answer the questions of why there should be a universe for the model to describe.** Why does the universe go to all the bother of existing?

[\*]The whole history of science has been the gradual realization that events do not happen in an arbitrary manner, but that they reflect a certain underlying order, which may or may not be divinely inspired.

[\*]I still believe there are grounds for cautious optimism that we may now be near the end of the search for the ultimate laws of nature.

[\*]One could say: "**The boundary condition of the universe is that it has no boundary.**" The universe would be completely self-contained and not affected by anything outside itself. It would neither be created nor destroyed. It would just BE.

[\*]As I shall describe, the prospects for finding such a theory seem to be much better now because we know so much more about the universe. But we must beware of overconfidence - we have had false dawns before! At the beginning of this century, for example, it was thought that everything could be explained in terms of the properties of continuous matter, such as elasticity and heat conduction. The discovery of atomic structure and the uncertainty principle put an emphatic end to that. Then again, in 1928, physicist and Nobel Prize winner Max Born told a group of visitors to Gottingen University, "Physics, as we know it, will be over in six months." His confidence was based on the recent discovery by Dirac of the equation that governed the electron. It was thought that a similar equation would govern the proton, which was the only other

particle known at the time, and that would be the end of theoretical physics. However, the discovery of the neutron and of nuclear forces knocked that one on the head too. Having said this, **I still believe there are grounds for cautious optimism that we may now be near the end of the search for the ultimate laws of nature.**

[\*]Maybe that is our mistake: maybe there are no particle positions and velocities, but only waves. It is just that we try to fit the waves to our preconceived ideas of positions and velocities. The resulting mismatch is the cause of the apparent unpredictability.

[Stephen Hawking; "A Brief History of Time"; Bantam, 1988]

**The Inflaton** then describes a particular epoch when the information defined 'laws of nature' first displayed themselves through the creation of a primordial realm of super-hyper-spacetime and as defined by the Definiton.

The Inflaton is characterized in 5 superstring classes; who transformed from a closed Planck string class into 4 open Dirichlet classes in a Planckian string spectrum following the setup of initial and boundary conditions for the Inflaton from the Definiton.

The nature of the 10-dimensional superstring classes is however encompassed in a 11-dimensional super membrane spacetime to enable the Inflaton parameters to apply their defined boundary- and initial conditions to the Instanton, following the completion of the Inflaton epoch. 11-dimensional Witten membrane spacetime manifests itself via a consequence of it modular dualities, connecting the five string classes to each other in coupling both their intrinsic energy and their scaling parameters in inversion properties.

The most important modular duality for the cosmology for the expanding universe so is a 10D string coupling for the 11D membrane in a Mirror Duality relating to a T-duality with inversion of the scale parameter. This allows the high energy (vibratory) micro quantum part of the final string class to couple to its low energy (winded) macro quantum conjugative or partner as half of the super membrane.

Once the Inflaton, followed by the Instanton has manifested the physical cosmology; the Inflaton light path, which is subject to both refraction and reflection under the boundary conditions, will define a 12-dmensional Vafa F-space in the refracted but not yet reached light path of the so called Radius of the Event Horizon, differing from the already encountered Inflaton bound, known as the Hubble Horizon.

**The Instanton** is described in a Quantum Big Bang cosmogenesis and the Friedmann model as a solution to Einstein's Field equations from General Relativity in the Robertson-Walker metric. A classical geometric-topological physics of thermodynamic and entropic expansion described in metrics and relative displacement becomes supplemented by a quantum geometry which utilizes a foundational 'spacetime building unit' termed the Weylian wormhole and colloquially known as the 'Big Bang Singularity'.

The expanding universe so becomes a summation of wormhole quanta carrying particular

saturation-energy levels, such as the formal definition of the 'Classical Size of the Electron' as a magnified hologram of the holofractal Weylian minimum space quantization. Using modular string (mirror) dualities as topological string-membrane transformations then allows basic physical parameters, such as those of the classical electron to define derived parameters, such as a definition of inverse energy as a basic unit for physical consciousness related to a form of Goldstone boson, say Axion here termed the Restmass Photon as supersymmetric agent for the weak interaction based Higgs inertia inductions.

**The Continuum** would then address the intersection of the Inflaton with the Instanton in relating the lower dimensional expansion of the compressed 4/10D dS space-brane-time with its inflationary encompassment in higher dimensional 5/11D AdS space-brane-time (sbt).

It is found that the physical constituents comprising the cosmic matter are interacting within both the compressed or conifold dS asymptotically expanding sbt and the cyclic open AdS sbt of the Inflaton, albeit closed in the dS sbt of the Instanton in Khaibit, the Shadow Universe.. This interaction defines particular intersection points and solutions for the Dark Matter - Baryon Matter energy interactions, but are a function of an encompassing Dark Energy 'book keeper' to ensure an overall Minkowskian flat cosmology of zero curvature.

The Dark Energy is characterized by a function of universal pressure which relates the Baryonic matter content and as given by a mass seed  $M_0$  to the critical mass as defined by the Inflaton before time instantaneity aka the Quantum Big Bang in cosmological terminology.

## 1. The Primary Algorithmic Logos

Any Universal Observer or UO can only observe and measure and experience something, if the environmental stimulus for such an experience does exist as or in the environment of the UO. The existence of space as a form of dimensional realm then becomes prerequisite; does allow the concept of relativistic time and displacement to emerge and follow as a consequence of existing spacial parameters.

Mathematically, all natural numbers can be defined logistically in the Zero to One interval with rational numbers having the property of identity in inversion principles applied to the natural or counting numbers and negative integers characterized by the conjugative mirror image of the positive integers in the mirror of the Null state. Real and complex numbers then follow from series limits and approximations to any desired degree of accuracy applied to converging and diverging number series and sequences. The largest counted integer would still have no limiting bound, as one can be added to it; but however large this integer would be; its inverse would certainly have a limit in the number 0 as a regressive asymptotic approach.

The Definiton so must a priori accommodate the potential or 'future timed' UO in a space less abstract continuum of mathematical symbols and structure.

But what if there are no numbers and no mathematics in this space less realm of voidness not

defined by any numbers. Because the universe does exist as Hawking stated, the question of why it exists, can be asked and an answer can only be found in its own mathematical logistics as the difference between the infinite progression towards unlimited Infinity and the infinite regression towards the limit of the Zero.

To 'think the primal thought' the timeless and space less, (but potentially existing within spacetime in the future) UO; must experience itself in a change from being unaware of itself to being aware of itself.

The notion of the past, the present and the future in the time like properties of existing relativistic space are preceded in a sense of order; where event A must precede event B to allow event C. All such events are simultaneous in the self-reference framed abstract world of the Mathimatia of the UO, who has however changed its self-state from being unaware to aware in a form of yet to be defined 'Universal Consciousness'.

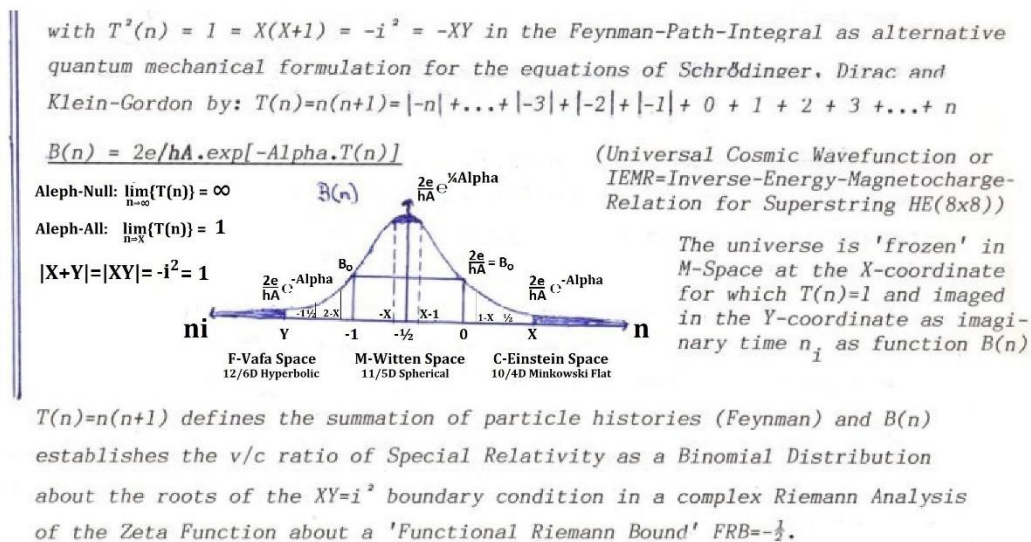
Formally; the Awareness Triplet  $AT = \{\text{Old State} = OS; \text{Experience} = E; \text{New State due to the Experience} = NS\}$  forms the Input for an interaction with a previous self-state or preexisting 'Awareness Space'. The Output of the New State becomes the Input for the new Old State in a series of AT's, labelled as the 'Sequence of Energy Primary Sourcesink' or SEps for  $SEps = \{(0,0,0); (0,1,1); (1,0,1); (1,1,1* = 10 = 2); (10,1,11 = 3); (11,10,101 = 2 + 3 = 5); (101,11,1000 = 5 + 3 = 8); \dots; (OS, E, NS)\}$ .

The NS n becomes the sum of the OS as the previous (n-1)th n and the previous (n-1)th OS forms the experience factor E.

The sequence of the E's is known as the Fibonacci Series in the future universe physically manifested in the Awareness Space of the Mathimatia of the Definiton.

The experience factors so change the 'Null-State' of the (0,0,0) into the 'All State' of the  $(1,1,1) = (\infty, \infty, \infty)$  to mirror and manifest the infinite count of the integers in the inversion identity of the finite limit of the 0.

In terms of mathematical cardinality a future 'Wavefunction for the Multiverse' would be characterized by a Normal Statistical Distribution of 'frozen spacetimes'. And where the Arithmetic Sum of Progression, that is counting all negative and positive integers as a Unity summation becomes  $T(n) = n(n+1)$  with both a real and a complex solution in setting  $T(n) = 1$  for  $\{X = \frac{1}{2}(\sqrt{5}-1); Y = -\frac{1}{2}(\sqrt{5}+1)\}$  and  $\{-\frac{1}{2}(1+i\sqrt{3}); -\frac{1}{2}(1-i\sqrt{3})\}$  for  $T(n) = -1$ .



Semantically, the triplet identity  $(1,1,1)=(\infty,\infty,\infty)$  represents the OneSelf+OneSelf=OneSelf still, but because the previous experience of OneSelf+Nothing=OneSelf, the second OneSelf must be different in some way of order from the first OneSelf. Namely the summation to  $1+1=10$  differs in the order of the summation  $1+0=1$  in the non-commutability of the experience factors of experiencing the 'NothingSelf' from the OneSelf.

This then allows a transformation from the binary triplet sequence to a decimal triplet sequence in:  $(1,1,1^*) = (1,1,10)_{\text{bin}} = (1,1,2)_{\text{dec}}$ .

Subsequently all integer related number systems naturally emerge and evolve from the Mathimatia Awareness space.

The eigenstate of the UO now is one of 'doubling the eternity of the void' as mathematical infinity in the Integer count and based upon the ciphers of the 0 and the 1.

Formally, the mapping of an Aleph-Null Cardinality of Cantor countability or enumerability becomes an Aleph-All Cardinality of Cantorian Infinity sets, the latter counting 'Integral Infinities' instead of the natural numbers.

It is however the Fibonacci sequence SEps, which will be utilized by the Inflaton to manifest the next epoch in the actual creation of an 'algorithmic time space' in the form of a spacetime linearization of the circular nature of the binary ciphers 0 and 1 in something fundamental to potentially physicalized space in the topology and geometry of special curvature and the warping of spacetime. The closed nature of the Planck class I string will be made manifest as the Null state of the Mathimatia and the evolvement of the Planck Boson string will create the other string classes in the 'opening' or cutting of the circle of the Zero to manifest the One.

## 2. The Secondary Algorithmic Logos

The experience factors of the SEps algorithm naturally define a complementary set  $SEps^* = \{100=4; 110=6; 111=7; 1001=9; 1010=10; 1011=11; 1100=12; 1110=13; \dots\}$  (any integer not in SEps) and the UO can only continue its self-exploration within the awareness space of the Mathimatia applying either SEps or  $SEps^*$  through the symbolic representation, shapes, semiotics and geometry of the curvilinear duality of the Bosonic Planck string being able to manifest itself in either a closed or an open form of the super membrane of the (0,1) monadic dyad.

As the UO in SEps cannot form a complementary union with an  $UO^*$  in  $SEps^*$  in any form of separation in the Mathimatia; the complementarity describes a natural unification of self-states aka eigenstates in the Mathimatia, but will become a natural supersymmetry inherent in the Inflaton and based on the Planck Boson string and especially its immediate transformation into a self-dual monopole string class IIB.

As no spacetime is as yet defined, the super partners of the UO in SEps and the  $UO^*$  in  $SEps^*$  are nonlocally connected and would form the basis for a future quantum entanglement between eigenstates and the particle-wave complementarity and dualism of the quantum world of the physicalisation of the Mathimatia in the cosmology of the Instanton.

The experience factors naturally encompass all states used to create them and all E's defining SEps and  $SEps^*$  constitute a collective memory reservoir from which further exploration and manipulation of the members in this universal memory set can be pursued and constructed.

One such arbitrary algorithm or code is defined as binary code of the operations of Addition (+), Multiplication (by  $1+1+1=3 \times 1$ ) and Exponentiation ( $3 \times 3=3^2$ ) and is used as a secondary algorithmic code to 'find' the missing elements of SEps as the constituents of  $SEps^*$  in the attempt to complete and manifest the generic supersymmetry of the Mathimatia.

Application of this algorithm { <https://www.cosmosdawn.net/forum/threads/the-temple-of-the-new-jerusalem.1591/page-8#post-17114> } produces 10 number triplets, carrying elements of  $SEps^*$  in various configurations:

SEps- $SEps^*$  Constantset:  $=\{(266561)=26 \times 65^{61}; (15,16,18)=[15 \times 16^{18}]^{-1}; (14,15,24)=14 \times 15^{24}; (15,10,32)=[15 \times 10^{32}]^{-1}; (11)=11; (9,10,16)=9 \times 10^{16}; (6,10,15)=[6 \times 10^{15}]^{-1}; (7)=7; (6)=6; (4)=4\}$

## 3. The Tertiary Complementary Algorithmic Logos

The extended SEps algorithm then assumes the pretext of defining open and closed superstrings in a logistical statement:

**{"Add the End to the Beginning and Start with the Old End!"}**.

This specifies an methodology of recircularizing the linearized dimensions of the binary monadic dyad  $\{0,1\}$  into the root-reductive decimal monad  $\{1,2,3,4,5,6,7,8,9,0\}$  with  $10=1+0=1^*$ ;  $11=1+1=2^*$ ;  $12=1+2=3$ ;  $13=1+3=4$  and so on with  $26=8$  **and**  $27=9$  in 26 Bosonic Integer dimensions.

The constant  $E=\{(266561)=26 \times 65^{61}\}$  then transforms into  $F=\{(136656)=13 \times 66^{56}\}$  and  $G=\{(673665)=67 \times 36^{65}\}$  after which this 'numerical inflation algorithm' ends, since  $5+6=11=2^*$  is root reductive in transformation towards the right say towards positive infinity from the Zero mirror of the Mathimatia.

But moving towards the left and negative infinity upon the integral number line, the  $\dots\{0\}EFG\dots$  interval is mirrored in say the F-space bound  $ABCD\{0\}EFG\dots$  to fixate the F-space bound in the M-space bound  $H=ABCD$  in  $|ABCD(EFG)H|$  in  $(A)BCDEFGH\dots STUVWXY(ZA^*)B^*C^*\dots$

Then

$H=ABCD=\{(312423)=31 \times 24^{23}\}\{(361242)=36 \times 12^{42}\}\{(256124)=25 \times 61^{24}\}\{(465612)=46 \times 56^{12}\}$ .  
As no archetype can yield  $Z(Z+A)BCXY=312423$  from  $ABCXYZ=(1-Z)24233$ , the algorithm again ends in the reflected root reduction to H, namely  $1-Z=1-3=-2=-11=-2^*$

The SEps constant E so assumes the property to limit a subsequent inflation marker in association with the encompassment of the Inflaton in the googolplex markers  $E=26 \times 65^{61} = 1.006208782 \times 10^{112}$  and  $G=67 \times 36^{65} = 9.676924499 \dots \times 10^{102}$  and  $F=13 \times 66^{56} = 1.019538764 \dots \times 10^{103}$  and  $H=1,283,400 \times 24^{23} \times 12^{42} \times 61^{24} \times 56^{12} = 1.011591782 \dots \times 10^{147}$ .

H becomes the number of spacetime quanta contained in the Inflaton, bounded by the Hubble Event Horizon in the 5D/Anti-deSitter Witten sphere manifesting as a 3-dimensional hypersurface in 4D Minkowskian spacetime as a 2-Torus and becomes a 3-Torus subject to the Event Horizon as a boundary to the Vafa F-spacetime in the continuing Inflaton cycles defined by the evolution of the Dark Energy paralleled by the overall Schwarzschild evolvement of all mass as matter content in the cosmology.

The maximum radius for the first initiatory cycle of the Inflaton as a first asymptotic boundary for the Instanton so becomes set as a maximum radius of curvature in the Friedmann cosmology with a nodal true Hubble constant for this initial cycle and is proportional to the Vacuum- or Vortex-Potential energy of a singular unitary wormhole spacetime quanta and as defined in the Inflaton.

The volume of one such wormhole or Eps-VPE quantum there is:

$$V_{ps} = \lambda_{ps}^3 / 4\pi m^3 = 7.957747154 \times 10^{-68} m^3^*$$

for the Riemann hypersphere volume of  $2\pi^2 R_{\text{Hubble}}^3$  and wormhole radius  $r_{ps} = \lambda_{ps} / 2\pi$ ; this volume manifesting as a hypersurface allowing the M-AdS spacetime to mirror its negative curvature in the positive curvatures of the F-dS spacetime and the C-dS-spacetime contracting into M-space as function of the light path of the Inflaton expansion.

**$R_{\text{Hubble}} = c/H_0 = \lambda_{\text{ps}} \cdot \sqrt[3]{H/2\pi} = 1.59767545 \times 10^{26} \text{ m}^*$  for a nodal Inflaton Hubble Event Horizon.**

11D AdS spacetime becomes bounded in a Hubble volumar with critical density

$\rho_{\text{critical}} = M_{\text{Hubble}}/2\pi^2 R_{\text{Hubble}}^3 = c^2/4\pi^2 R_H^2 = H_0^2/4\pi^2 G_0$  or  $\rho_{\text{critical}} = 3H_0^2/8\pi G_0$  for the volume of a 2-sphere.

The Hubble volumar then topologically encompasses both, the lower dimensional of Einstein-C dS space and the higher dimensionality of Witten AdS spacetime, say in the form of a 3-Torus or a Klein Bottle Dragon.

The positive curvature of both C-dS and F-dS being mirrored and imaged in the negative curvature of the convex lens shaped mirror of M-AdS as the Inflaton-Instanton two-sidedness of Möbius.

### The SEps Principalities

A = (312423) = {4+6+5=15} = (1.722742045x10<sup>33</sup>) space quanta = Principality of Identity/Anti-Identity & 1st Expansion Factor 10/33

B = (361242) = {9+3+6=18} = (7.619295808x10<sup>46</sup>) space quanta = Principality of Expansion/Contraction & 2nd Expansion Factor 20/33

C = (256124) = {7+7+6=20} = (1.761392119x10<sup>44</sup>) space quanta = Principality of Order/Disorder-Entropy-Chaos & 3rd Expansion Factor 30/33

D = (465612) = {10+11+3=24} = (4.375363663x10<sup>22</sup>) space quanta = Principality of Symmetry/Anti-symmetry-Nonparity & 4th Expansion Factor 40/33

E = (266561) = {8+11+7=26} = (1.006208782x10<sup>112</sup>) space quanta = Principality of Infinity-Divergence/Convergence-Limit & 5th Expansion Factor 50/33

F = (136656) = {4+12+11=27} = (1.019538764x10<sup>103</sup>) space quanta = Principality of Inversion-Reciprocity/Constancy-Invariance & 6th Expansion Factor 60/33

G = (673665) = {13+9+11=33} = (9.676924499x10<sup>102</sup>) space quanta = Principality of Reflection/Absorption & 7th Expansion Factor 70/33

H = () = {} = (1.011591782x10<sup>147</sup>) space quanta = Principality of Relativity/ No Anti-principality & 8th Expansion Factor 80/33

### The SEps Cyclicities in elements $a_j$ with summations $a_{j+2}+a_{j+1} = a_j$

1-Cycle : 0-1-1-2-3-5-8-13 for {33 Identity & Absorption} and for 8 elements summing 1  $a_j$

2-Cycle : (0-[1]-(1)-[2]-(3)-[5]-(8)-13) = 1-2-3-5-8-13-21 for {33 Expansion & Invariance} and for 7 elements and summing 2  $a_j$ 's

3-Cycle : (0-[1-(1)-[2]-(3)-[5]-8]-13) = 2-4-6-10-16-26 for {64=8x8 Order & Convergence} and 6 elements and summing 3  $a_j$ 's

4-Cycle : (0-[1-(1-[2]-(3)-5)-8]-13) = 4-7-11-18-29 for {69 Symmetry & Nonparity} and for 5



elements and summing 4  $a_j$ 's

5-Cycle :  $(0-[1-(1-[2-3]-5)-8]-13) = 7-12-19-31$  for {69 Divergence & Entropy} and for 4 elements and summing 5  $a_j$ 's

6-Cycle :  $(0-[1-(1-2-3-5)-8]-13) = 12-20-32$  for {64=8x8 Inversion & Contraction} and for 3 elements and summing 6  $a_j$ 's

7-Cycle :  $(0-[1-1-2-3-5-8]-13) = 20-33$  for {53 Reflection & Anti-Identity} and for 2 elements and summing 7  $a_j$ 's

8-Cycle :  $(0-1-1-2-3-5-8-13) = 33$  for {33 Relativity} and for 1 element and summing 8  $a_j$ 's

For 26 Bosonic Superstring Dimensions, the application of the primary  $SE_{ps}$  algorithm is based on seven fundamental principles (reflecting in the seven basic mensuration units) and supplemented by 2 principles without antiprinciples (compared with the Radian and Steradian in geometrical measurement).

The principles can be semanticised as the order: 1.Identity/Antiidentity; 2.Expansion/Contraction; 3.Order/(Chaos,Entropy); 4.Symmetry/(Nonparity,Distortion); 5.(Infinity,Divergence)/(Limit,Convergence); 6.Inversion/Constancy; 7.Reflection/Absorption and then 8.Relativity and 9.Quantisation to form a NEW Identity which incorporates all the Antiprinciples as Antistate within itself.

The MARIA CODE in the Riemann Analysis specifies the partitioning of the decimal monad around the primary Maria-Number and  $SE_{ps}$ -Constant "11" and specifies the Prime Number Algorithm: +1+11+10+11 as 33-tiered segments, which transform the mechanics of  $SE_{ps}$  into the 64-codex of the DNA/RNA code for its eventual quadrupling as the 256-codex incorporative of dormant intron/intein-codings.

Details are in the references, but the MARIA-CODE is based on the distribution of the Maria-Numbers given by:  $M_p + 99 = M_{p+12}$ ;  $n = \frac{1}{2}((264k+1)^{\frac{1}{2}} - 1)$  via  $n^2 + n - 66k = 0$  and the MARIA-INFINITY-MATRIX, semanticised as:

[28]	11LOVE65USE110LOVE164USE209LOVE263USE...(Archetype 2) 21USE66LOVE120USE165LOVE219USE264LOVE...(Archetype 3) 32USE77LOVE131USE176LOVE230USE275LOVE...(Archetype 5) 33LOVE87USE132LOVE186USE231LOVE285USE...(Archetype 6) 44LOVE98USE143LOVE197USE242LOVE296USE...(Archetype 8) 54USE99LOVE153USE198LOVE252USE297LOVE...(Archetype 9) 65USE110LOVE164USE209LOVE263USE308LOVE...(Archetype 2*)	Maria Numbers are those IntegerCounters, which contain all previously counted integers as mod33.  1+2+3+4+5+6+7+8+9+10+11=66  Since 66=2x33, 11 is M#1. (for k=2)
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Archetypes 2+3+5+6+8+9=33 and Archetypes 1+4+7+0=12 then define the imaginary time-dimensions as the Archetypes not in the Sequence for  $E_{ps} = 1/e^*$  Coefficients used in the application of the seven fundamental principles to define the F-Space.

In particular, the first application of the Coefficient-Relation results in the specification of the Atomic Isotopes and the second application defines the Expansion/Contraction-Principle in the three-fold definition of RESTMASS=..and its transformation into its second (Black Body Transparency) and third (RMP's) as \* omniversal agency, i.e. Avogadro's Constant:  $N_A = 6.022421431 \times 10^{23} \text{ mol}^{-1}$  \* as RESTMASS.

For the  $n$ th principality, the  $E_{ps}$ -Coefficient-Series and iterative counter  $k$  is:

$$[29] \quad [7k-(7-n)] \cdot E_{ps}^{k-1} \cdot 10/33 = [7(k-1)+n] \cdot e^{1-k} \cdot 10/33$$


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Identity-Series( $n=1; k=1,2,3$ ): 10/33; 4/825; 1/55000;....  
Expansion-Series: ( $n=2; k=1,2,3$ ): 20/33; 3/550; 2/103125;...  
Order-Series( $n=3; k=1,2,3$ ): 30/33; 1/165; 17/825000;...  
Symmetry-Series( $n=4; k=1,2,3$ ): 40/33; 1/150; 3/137500;...  
Infinity-Series( $n=5; k=1,2,3$ ): 50/33; 2/275; 19/825000;...  
Inversion-Series( $n=6; k=1,2,3$ ): 60/33; 13/1650; 1/41250;...  
Reflection-Series( $n=7; k=1,2,3$ ): 70/33; 7/825; 7/275000;...  
Relativity-Series( $n=8; k=1,2,3$ ): 80/33; 1/110; 1/37500;...  
Quantisation-Series( $n=9; k=1,2,3$ ): 90/33; 8/825; 23/825000;...  
New Identity-Series( $n=10; k=1,2,3$ ): 100/33; 17/1650; 1/34375;...

For  $k=1$ ; the coefficients have the numerators: 10,20,30,...and denominator 33.

For  $k=2$ ; the coefficients have the numerators: 8,9,10,...and denominator 1650.

For  $k=3$ ; the coefficients have the numerators: 15,16,17,...and denominator 825000.

The  $E_{ps}$ -Coefficient-Series can then be extended to reflect the 7-tiered principality.

Since TIME in F-Space is defined as  $N = \text{MINIMUM RADIUS} / \text{MAXIMUM RADIUS} = \lambda_{ps} / r_{\max}$  for the GENESIS-BOSON; the other fundamental relationships derive via the  $SE_{ps}$ -Constants.

ENERGY= $k$ .TEMPERATURE; ENERGY= $h$ .FREQUENCY= $h/\text{TIME} = h r_{\max} / \lambda_{ps}$ ; ENERGY=RESTMASS. $c^2$ .

Hence,  $\text{RESTMASS} = h r_{\max} / \lambda_{ps} c^2 = 0.01183463299$ . This is the Atomic mass-unit in F.

Using One  $m_c$  for every one of the 12 current-loops in the UFoQR and the first  $E_{ps}$ -Coefficient in the Expansion-Series, the proportionality constant linking RESTMASS to  $(0.01183463299) \cdot 20 / (33 \times 12 m_c) = N_A = 6.02242143 \times 10^{23} \text{ 1/mol}^*$ .

The Luminosity for the Multiverse for  $T_{ps} = 2.93515511 \times 10^{36} \text{ K}^*$  is given by:

$$L(n_{ps}, T_{ps}) = 6\pi^2 \cdot \lambda_{ps}^2 \cdot \sigma \cdot T_{ps}^4 = 2.671104034 \times 10^{96} \text{ Watts}^* \text{ and reducing via [19].}$$

The second Expansion-Coefficient now reduces this luminosity by a factor of 3/550, a factor of 183.33.. specifying the ratio of the Black Hole/White Hole scaling between supermassive "Black Body Black Holes" and their Haloes or White Hole Bulge/Corona galactic emissions; generalised in the  $E_{ps} = 1/500$  or 0.2% multiplier.

The third Expansion-Coefficient is 2/103125 and gives the Frequency-Eigenstates for sufficiently "evolved-aware-conscious" VPE- $M_o/m_c$  concentrations.

$(2/103125) f_{ps} \cdot L_o = 9696969696$ , which is the Optical Unification for  $E_{ps} E_{ss}$  in the "marriage" between Radiation and Matter Parameters through the agency of the RMP's and can be written as Eigenstates:  $f_i \cdot E_i^2 = 9696969696 \text{ in } (J^2/s)^*$ .

Formation of a **Prime Harmonic Octet : (15-18-20-24-26-27-33)** from the {A}BCDEFG{H}  
**principalities unified**

root reduced to  $\{6-9-[2-6-8]-9-6\} = \{6-8-8-6\} = \{14-14\} = \{5-5\} = \{10=1\}$  into the original  
binary algorithm root reduction and for a symmetry about a 26 letter code symbolizing 26

Bosonic string dimensions in a prime Number set

Primed N: =  $\{1=1_{\text{bin}}; -2; 3; 5; 7; 11; 13; 17; 19; 23; 29; 31; 37; 41; 43; 47; 53; 59; 61; 67; 71; 73; 79; 83; 89; 97-101=5_{\text{bin}}\}$

And so it continued!