HIGGS BOSON (PARTICLE) AND EUCLIDEAN GEOMETRY

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The present attempt is the describing of Origin of Spaces [Spaces, Anti-Spaces, Sub-Spaces] on any first dimentional Unit AB = ds >0→<∞ and the Origin of Mass ,Energy which is a meter of the motion of the infinite Sub-Spaces in Spaces Anti- Spaces that construct Spaces in Chaos .

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Geometry and geometrical constructions [Spaces , Anti-Spaces , Sub-Spaces] are able to connect Properties , such as Mass , Energy and the conservation laws of Physics with only one substance, that of Vector **ds = AB > 0 → < ∞** with Impulses $\mathbf{P_A + P_B = 0 \; , \neq 0}$ at edge points A , B . Since neutrons may travel faster than light and also gravity instantly affects , a new explanation is needed The present article < **The Higgs Boson (Particle) and Euclidean Geometry** > describes the motion of one of infinite Subspaces in [PNS] (Primary Neutral Space) , [11] – [17] as this is shown below. A short Concentrated analysis for Point in Euclidean geometry follows [2] :

1a.. ***Point*** is nothing , has not any Position and Magnitude , and may be anywhere in Space *therefore* , the Primary point A , *being nothing also in no Space* , is the only point and no-where (***i.e. Primary point is the only Space and from this all the others***) . [6]

2b.. ***Straight line*** is 0 , Positive , Negative ± ∞ points , and since is composed of infinite points which are filling line , *then nature of line is that of Point (the all is one for Lines and Points).*

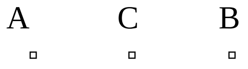
3c.. ***Plane*** is Positive , Negative , ± Neutral and ± Complex points and since is composed of infinite Straight lines which are filling Plane , then , *nature of Plane is that of Line and that of Points (the all is one for Planes , Lines and Points)* .

4d.. ***Space*** is Positive , Negative , ± Neutral and ± Complex points , and since is composed of infinite Planes which are filling Space , then , *nature of Space is that of Plane and that of Points (the all is one for Spaces , Planes , Lines and Points)* .

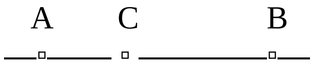
FUNDAMENTAL PRINCIPLES .

1.. The first dimensional Unit AB of two points **A , B** not coinciding is the geometrical Shape that has as Position (the direction ÂB , BÂ) and as Magnitude (the length AB = 0 → N → ∞) **AB is a straight line** through points A , B . (F.1b) , [6]

$$CA + CB \overset{\downarrow}{=} AB \quad , \text{ where } ,$$



F.1(a)



F.1(b)

ds = An Infinitely small increment of length AB in the direction ÃB or BÃ.
∞ = An Infinitely great magnitude AB in the direction ÃB , BÃ .
Any point C is on Straight line AB , only when exists equation CA + CB = AB , i.e.

The Whole AB is equal to the Parts CA and CB . (*equation*) . (F 1.b)

In case CA + CB > AB then point C is not on line AB , and this is the main difference between Euclidean and Non-Euclidean geometries . In Definition 2 (*a line AB is breathless length*) is altered as , *for any point C on line AB exists* CA + CB = AB . [6]
Edge points A , B not coinciding on Monad **AB** , keep the properties of Complex numbers with Imaginary part which differs between the infinite points. [11] – [13]

Unit AB creates Spaces with two basic Elements , **the Position** (which are the three directions AB → , BA ← , AB ↔) and **the Dimension** (which is the Magnitude N $N = 0 \rightarrow AB \rightarrow \infty$) , when

A = B = *Principle of the Equality* .
A ≠ B = *Principle of the Inequality* .
A→↔← B = ∞ *Principle of Virtual Displacements* . **W** $= \int P.ds = 0$, **ds** $= \partial W / \partial P$
P A + P B = 0 *Principle of Stability*

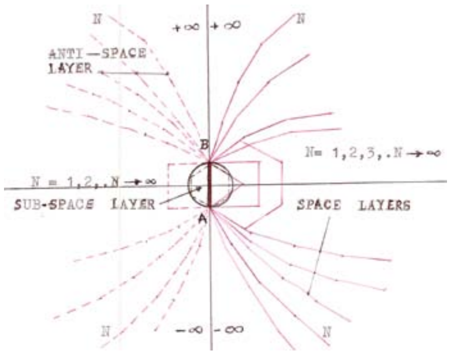
Monads = Quantum = ds = AB / (n = ∞ → 0) = [a ± b.i] = 0 → ∞ , are simultaneously (*actual infinity*) and also (*potential infinity*) in Complex number form , and this defines , infinity which exists between all points which are not coinciding (ds > 0) , and because **ds** comprises any two edge points with Imaginary part then this property differs between the infinite points. Plank length is a Monad **ds = $1,62x10^{-35}$,** for two points A , B , and for the moment is accepted as the smallest possible size . This Monad is also infinitely divided because edge points A , B are not coinciding i.e. ... **ds = $1x10^{-N}$** < ∞ , where N is any number .

2.. **Spaces of Unit AB** are (in Plane) the Infinite (+) Regular Polygons inscribed in the circles ***with AB as Side*** , (repetition of Unit AB) , the Nth Space , the Nth Unit Tensor of the **N** equal finite Elements **ds** , and for the ∞ Spaces , the line AB ↔ . (F.2)
The diameter of this circles extends to infinity (*it is of potential nature*) . [11]

3.. **Anti - Spaces of Unit AB** are (in the three dimentional space) the Symmetrically Infinite (-) Regular Solids inscribed in the Sphere ***with AB as side*** of the Solid , (The Harmonic Repetition of Unit BA , symmetrical to AB) , the Nth Anti-Space , the Nth Unit Tensor of the N equal finite Anti - Elements and for the ∞ Spaces , the Plane through line BA ↔ . (F2) ,
The diameter of this Spheres extends to infinity (*it is of potential nature*) . [11]

4.. **Sub- Spaces of Unit AB** are (in Plane) the Infinite Regular Polygons inscribed in the circle ***with AB as diameter*** , (Harmonic Repetition of the Roots in Unit AB) and in Nth Sub-Space, the Nth Unit Tensor of the N finite Roots and in case of ∞ Elements are the points on the circle , *and for 3DSpace , the points on Sphere* AB) . (F.2) The Superposition of Spaces , Anti - Spaces and Sub-Space Layers of Unit AB is shown in F.2 . *Remark* : (+) Spaces , (-) Anti - Spaces , (±) Sub-Spaces , of a unit AB are between magnitude (Point = 0 = Nothing) , and the Infinite magnitude (↔ = ± ∞ = Infinite) which means that all Spaces are in one Space . (F2) Because in Spaces and Anti-Spaces , the ∞ Spaces of **Unit AB** is line AB ↔ , and in Sub-Spaces the ∞ Sub-Spaces of **Unit AB** are the points on the circle with AB as diameter , then this ordered continuum *for points on the circle* of Unit AB and on *line AB* shows the correlation of Spaces in Unit AB . i.e.
Monads ds = 0 → ∞ are Simultaneously, *actual infinity (because for n = ∞ then ds = [AB / n = ∞] = 0 i.e. a point) and , potential infinity , (because for n = 0 then ds = [AB / n = 0] = ∞ i.e. the straight line through AB . Infinity exists between all points which are not coinciding , and because Monads* ds *comprises any two edge points with Imaginary part , then this property differs between the infinite points .* [11]

4a . The Superposition of Plane Space , Anti-Space Layers and Sub-Space Layers (F.2) :
The simultaneously co-existence of Spaces , Anti-Spaces and Sub-Spaces of any unit AB , **Unit AB = 0** → ∞**,** (A ≡ B) i.e. , Euclidean , Elliptic ,Spherical , Parabolic , Hyperbolic, Geodesics , Metric and Non-metric geometries , exists in Euclidean Model as an Sub-case within . The Interconnection of Homogeneous and Heterogeneous bounded Spaces Anti-Spaces and Subspaces of the Universe. The Unity of Opposites .This is also the *Quantized* property of Euclidean geometry < *all is one* > as it is , Discrete (for Monads AB) and Continuous (for Points A , B) . F.2 [13] . For Primary Point A , it is the only Space [17]



F.2

4b. The Unique Case ***where $P = 0$ and $\Delta s > 0 = AB \rightarrow \infty$ is the Primary Neutral Space*** **[PNS]** ***The Spherical connection of the same points in PNS , is related on the influence ($P = 0 \rightarrow \hat{A}B \rightarrow \infty$) of the infinite (∞) Equilibrium Primary Spaces and Anti-Spaces .*** For every point in [PNS] exist the three Spatial dimensions (x , y , z) and the infinite dimensions of the (i) Layers at this point , existing from the other Layers (at small scale using coordinate system) of Primary Anti-Space and Sub-Space where $i = 1 \rightarrow \infty$. It has been also shown that , Every point **M** of Primary Neutral Space **[PNS]** exists in this Space with a **deficit of Impulse** **P**m **= 0** $\rightarrow \infty$, due to the influence of the other Equilibrium Primary Spaces **. This Property of points in Neutral Space** *is the cause of their Continuously Survive* **.** *So at any point M there are all Impulses of all other Spaces* **.** ***All Points of*** **[PNS]** ***are*** **Homogenous (** *i.e. all points of* PNS *are Equivalent* **) and Isotropic (** *i.e. all directions of* AB *are Equivalent* **) , [A≡A] [10]**

5.. Algebraic Numbers : According to F.2 *Monad* **AB = 0 ↔ AB ↔** ± ∞ **.** Spaces , Anti-Spaces Sub - Spaces of AB are **the Infinite Regular Polygons** , on circle with AB as Side , and on circle with AB as diameter . According to De Moivre's formula the n-th roots on the unit circle AB are represented by the vertices of these Regular n-sided Polygon inscribed in the circle , which are Complex numbers in the general form $\mathbf{w = a + b.i = r.e}(i\varphi)$, **a** and **b** = Real Numbers **,** and with $r = \sqrt{a^2+b^2}$ **,** and (±) **i** = Imaginary Unit.
It has been proved [11] that , since Complex Numbers are ***on Monad AB*** (*any two points*) and it is the only manifold for Physical reality , ***then Euclidean Geometry is Quantized , this because***

a. Exists $\mathbf{{}^2\sqrt{1} = \pm 1}$ **or [-1 ↔ +1]** , therefore **xx** (axis) coordinate system represents the one-dimensional Space and Anti-Space . (the Straight line) , 1.1 = 1 , (-1).(-1) = 1

[+ i]
b. Exists $\mathbf{{}^2\sqrt{-1} = \pm i}$ **or [↨]** , therefore **yy** (axis) coordinate system represents a perpendicular one-dimensional [- i] to **xx** Space and Anti-Space . (the Straight line) ,
$(-i).(-i) = +i^2 = +(-1) = -1$, $(+i).(+i) = +i^2 = -1$

c. Exists $\mathbf{{}^3\sqrt{1} = [\, 1 , -\tfrac{1}{2} + (\sqrt{3}.i)/2 , -\tfrac{1}{2} - (\sqrt{3}.i)/2 \,]}$ therefore **xx-yy** coordinate represents two - dimensional ± Spaces and ± Complex numbers . (the Plane)
1.1.1 = 1 , $[-\tfrac{1}{2} +(\sqrt{3}.i)/2\,]^3 = 1$, $[-\tfrac{1}{2} -(\sqrt{3}.i)/2]^3 = 1$

+ i
d. Exists $\mathbf{\sqrt[4]{1} = {}^2\sqrt{{}^2\sqrt{1}} = {}^2\sqrt{\pm 1} = [\,+1 , -1\,] , [\,{}^2\sqrt{-1} = +i , -i\,]}$ or -1 ↔ +1 , ↨
therefore coordinate systems **xx - yy** represent all these Spaces , - i
(± Real and ± Complex numbers) , where Monad = 1 = (*that which is one*) , represents the three-dimensional Space and Anti-Space. (the Sphere) . $[\pm 1]' = [\pm i]' = 1$
The fourth root of **1** (unity) ***are the vertices of Square in circle*** with **1** as diameter and since the Geometrical Visualization of Complex numbers , is formula $\mathbf{{}^2\sqrt{1} = \pm 1 , \pm i}$ …(d) and since ± 1 is the one-dimentional ***real Space*** (*the straight line*) , the vertical axis is the other one -dimentional ***Imaginary Space*** ± i **.** Since for dimension are needed N-1 points then (d) is representing the Space with three dimensions (x , y , z) which are Natural , Real and Complex Monads .
A distance is not purely spatial because ds = a ± b.i and since $\mathbf{ds^2 = (a^2 - b^2) + 2.a.b.i}$ and also $\mathbf{ds^3 = (a^3 - 3.a.b^2) - (b^3 - 3.b.a^2) . i}$ then the two and three dimensional Spaces are Complex also. The same exists fore every Space , since binomial $\mathbf{ds^n}$ is a complex number also . i.e.

(Entities = AB) are the Harmonic repetition of their roots , and since roots are the combinations of purely real and purely Imaginary numbers , *which is a similarity with Complex numbers* (*Real and Image*) , then , ***Monads are composed of Real and Imaginary parts as Complex Numbers are .*** i.e. Objective reality contains both aspects (Real and Imaginary **,** discrete , AB , and Continuous **,** Impulses **P_A , P_B** , etc) , i.e. , *Euclidean geometry is Quantized* . ***and ..The Position and Dimension of*** **all Points** ***which are connected across the Universe and that of Spaces exists , because of this Static Inner Impulse P ,*** **on the contrary** ***should be one point only (Primary Point = Black Hole → $ds = 0$, $dP = P_B - P_A = 0 \to \infty$) .*** [11 - 12] ***Impulse is ∞ , and may be Vacuum , Momentum , or Potential or Induced Potential .***

Change (motion) and plurality are impossible for points of Absolute Space [PNS] and since it is composed only of Points , that consist an Unmovable Space , then neither Motion nor Time exists i.e. a constant distance AB = **ds** anywhere existing is motionless . **ds = [AB / n] > 0** = *quantum* and for infinite continuous **n** , **ds** convergence to **0 .** [10]
Physical world is scale-variant and infinitely divisible , consisted of finite indivisible entities ds = AB > 0 → and infinite points (ds = 0) i.e. is Continuous with points and Discontinuous with ds > 0 . [13] . In PNS dt = 0 , so motion cannot exist at all .

6.. Motion : Since on Primary point A exists , *Principle of Virtual Displacements* [**ds . (** $P_A + P_B$) = 0] and Impulse **$P = (P_A + P_B) = 0 \to P \to \infty$** may have any Price , then for P = 0 exists PNS . **Since points A , B of [PNS] coincide with the infinite Points** of , Spaces , Anti-Spaces and Sub-Spaces **of [PNS]** , and since also Motion may occur at all Bounded Sub-Spaces then , this ***Relative motion*** is happening between all points belonging to [PNS] and to those points belonging to the other Sub-Spaces (A ≡ B) . [11] **.** For the points in [PNS] exist the three Spatial dimensions (x , y , z) and the infinite dimensions of the (i) Layers at these points , existing from the other Layers of Primary Anti-Space and Sub-Space , where i = 1 → ∞ .
Motion is Continuous and occurs on Dimensional Units , *ds* , and not on Points which are dimensionless , upon these Bounded States of [PNS] , *Spaces and Anti-Spaces , and because of the different Impulses P_A , P_B of points A , B and that of Impulses Pi_A , Pi_B , of* Sub-Spaces *is* either on straight line AB (linear) or curved for points *Pi_A , Pi_B* , ***not*** on line AB . Since all moving Sub-Spaces move in [PNS] there are three types of motions , Linear , Curved and Circular depending on the position of motion , occurring relatively to Primary Space and anti-Space .
It will be referred later that this property in [PNS] , *the curvature* , is not a property of [PNS] but it is of the relative motion of Spaces . Since distance **ds** is the mass of the bound State , then **[*$dP = P_B - P_A$*]** the vibrational Bounded State of a closed String interact and bend space .
Following Pythagoras theorem on 11/5/2012 has been proved that Energy (motion) is conserved *and in two dimentional Spaces* , the Changeable Square HNMC + Changeable Square HPP_1C_1 = Total Area of Square CADP and so this answers conservation laws in Physics **.** ***Because Total Energy is conserved all interactions are mediated with Energy (wave motion) , (Photons etc.***) .
Following the dialectic logic of ancient Greeks (Αναξίμανδρος) « τό μή Ον , Ον Γίγνεσθαι » ‘ The Non-existent , Exists when is done ’ , ‘ The Non - existent becomes and never is ’ and the Structure of Euclidean geometry [6] in a Compact Logic Space Layer , as this exists in a known Unit (***case of 90*** ▫ ***angle***) , then , we may find a Geometrical Mechanism that produces all Spaces and angles . ***Since Non-Existent may be at a point A (Primary point) and also everywhere , then how Existence of Space is found and is done everywhere ??*** [***Answer : Because Primary Point is the only Space and from this all the others*** **] .**

In Euclidean geometry points do not exist , but their position and correlation is doing geometry . Since Geometry is consisted of Real (**ds**) and Imaginary Parts (**P_A , P_B**) , the universe cannot be created , because becomes . **Monads = ds = AB / (n = ∞ → 0) =[a ± b.i] = 0 → ∞ .** ***Since all Points in [PNS] may exist with P = 0 and also with P ≠ 0 , ($P_A + P_B = 0$ for points in Spaces and Anti - Spaces) , therefore [PNS]*** **is self created** , ***and because at each point may exist P ≠ 0 this [PNS] is a Field with infinite points which have a Charge P = 0 →P →∞ , i.e. a Dynamic Tensor with absolute dimensions Xo , Yo , Zo and Charges Pi = 0 →Pi → ∞ , i = x , y , z***

On *Monad* **AB = 0 ↔ AB ↔ ± ∞ exists** < ***a bounded State for each of the Infinite Spaces and Anti-Spaces*** > and the **[Dipole AB = Matter]** is the communicator **of Impulse [P]** ***of Primary Space*** **, with the Bounded Impulses (P_A , P_B) of Dipole** or [10]

[P] ↔ [FMD = AB – P_A , P_B] → P_A , P_B .
on **↓ Communicator = Medium ↓**
Impulse P → [Bounded ***Primary Space- Anti-Space*** **] → Bounded Impulse P_A**
$\hat{P_A}$ = P_B
A → . . . . ← O → . . . . ← B

Since motion occurs on Dimensional Units ***, ds ,*** **and not on Points which are dimensionless** ***and because of the different Impulses P_A , P_B of points A , B and that of Impulses Pi_A , Pi_B , of*** Sub-Spaces **, it is on straight line AB or on tracks of Spaces , Anti -Spaces , and Sub-Spaces of** A**i**B**i** **. [10-11] .** ***All particles act as wave (wave-particle duality) because of the Total energy conservation law of Pythagoras*** **. [16]** ***In Particular Physics , every particle is a wave .***

The range of ***Relative velocities*** **is bounded according to the single slices of spaces (** ***ds*** **) .** ***The Bounded Spaces , Anti-Spaces , Sub-Spaces , of the First dimensional Unit AB = a + b.i are composed of the two Elements →*** **the [Dipole AB = matter]** ***which is the communicator AB*** **, and the Impulse [P]** ***of Primary Space , with the Bounded Impulses (P_A , P_B) of Dipole*** or is , **Forces at points A , B of [PNS] => [P]↔[FMD = AB – P_A , P_B]→ P_A , P_B**

When the difference of Impulses dP = P_B - P_A > 0 then Dipole AB is of + (deficit quality)
When the difference of Impulses dP = P_B - P_A < 0 then Dipole AB is of - (deficit quality)

A point in [PNS] , where exists **P_A + P_B** = 0 , is that of the symmetrical Primary Space and Anti-Space , and when **P_A + P_B** > 0 < ∞ is that of Space , and when **P_A + P_B** < 0 < - ∞ is that of Anti-Space .
Points A , B of AB (A≡B) carry the bounded Impulses P_A , P_B which achieve Stable State so this allows other Primary Spaces to exist differently in the same Space . (*Charges P_A , P_B → Electric field → Magnetic field → P_A , P_B* **) and for every dipole ds = AB ,** ***dP = P_B - P_A , a property called ± charge of ds .***

Question 1 : How geometrical constructions are able to connect such Properties as , Mass Energy and the conservation laws of Physics ? answer 14 / 3 / 2012

Let us clarify what is , Geometrical Construction and Properties such as , Mass , Energy and laws of Physics . All Principles are holding on any Point A . For two points A , B not coinciding , exists Principle of Inequality which consists another quality . These Points consist the monad AB with [Spaces , Anti-Spaces , Sub-Spaces] having steady boundaries , which exist in their Position under the Principle ***, Equality and Stability in Virtual displacement which presupposes Zero Work in a Restrain System***) . [11] . Page 2,3 , i.e.
[A point , *which is nothing* and has not any Position , may be anywhere in Space , *therefore* , the Primary point A , *being nothing also in no Space* , is the only point and nowhere i.e. *Primary point is the only Space and from this all the others* , so then this primary point A to exist at a second point B somewhere else , *point A must move at point B , where then A ≡ B .* → ***Since Spaces , Anti – Spaces and Sub - Spaces are created from the first Unit AB , and are Property of this Unit only , therefore these are also a Restrained System (S)*** . Presupposition for Unit **AB = ds** (the displacement ds) is the Point A to move at the New position B , and (A ≡ B) , and this means ***an IMPULSE (P) removes point A to B*** . Since in each Restrained System (S) the Work done (W) by Impulse (P) on a Virtual displacement (ds > 0) is zero , or ,

$$W = \int_{A-B} P.ds = 0 \rightarrow \mathbf{[\ ds\ .\ (P_A + P_B) = 0\ ]}$$

or

[ds . ($P_A + P_B$) = 0] , Therefore , ***Each Unit AB = ds > 0 exists , by this Inner Impulse (P)*** *and so* **$P_A + P_B = 0$** ***i.e. The Position and Dimension of all Points which are connected across the Universe and that of Spaces exists , because of this Static Inner Impulse ,*** **on the contrary** ***should be one point only (Primary Point A = Black Hole → ds = 0 and P = ∞) .***
Black Hole may happen anywhere in Universe when Points of [PNS] coincide , A ≡ B , ds = 0 and P = ∞ . The fact that on every point in [PNS] exist infinite Impulse P = 0 → P → ∞ , grows the idea that Matter was never concentrated at a point and Energy was never < very high energy > i.e Bing Bang has never been existed .
Impulse is 0 → ∞ and may be Vacuum , Momentum or Potential or Induced Potential and it is one Type of Effect , of Push nature **(Impulse → Motion = Energy) ←]**

This Equilibrium presupposes Homogenous Space and the Symmetrical Anti-Space .
For two points A , B which coincide , exists *Principle of Superposition* (A ≡ B) which is a Steady State containing Extrema for each point separately . i.e.
In three dimentional Space , the infinite points exist as Space because of the Equal and Opposite Impulses (***Opposite Forces***) which is a new ***Notion , for Mass and Energy in AB distance*** (Points A , B are embodied with Opposite Forces) . From this point , laws of Physics start .

Remarks :

1.. Spaces and Anti-Spaces are continuous and represent Real numbers as on line , **$^2\sqrt{1}$ = ± 1**
A Continuous Function is a Static Completed Entity , while **ds** is a quality existing Entity conveyed through PNS as above . Equilibrium of Spaces exists with their Anti-Spaces.
2.. The Model of nature is not built on Complex numbers because Complex numbers *spring out of Spaces* , Anti-Spaces and Sub-Spaces of the FDU **(ds = 0 → AB = [a ± b.i] → ∞)** and represent reality. The roots of Monads are the *same Monads* in Space and Anti-Space as well as Imaginary Monads in Sub-Space .
Since Binomial **ds^n = [a ± b.i $]^n$ = r^n.[cosnφ + i.sinφ]** is a complex number and n_{th} root of ds is also complex then , the Harmonic repetition of the roots (Principle of Equality) composes units with , *no need to be Image or real dimensions .*
Image or Real dimensions exist in Euclidean Geometry as the vertices of the Regular Polygons (and Anti-Polygons) on any First dimensional unit AB . The geometrical Visualization of Complex numbers , springs from formula **$^2\sqrt{1}$ = ± 1 , ± i** (d) and since ± 1 is the one dimentional ***real Space*** (*the straight line*) the vertical axis is on (*Harmonic repetition of Spaces*) the other one dimentional ***Imaginary Space*** which is conveyed . Since dimension needs (N-1) points then (d) is representing the Space with the three dimensions (x , y , z) which is Natural , Real and Complex numbers and it is not four dimensional Space as it is in “ Space-Time” theory.
A point in [PNS] exist with three Spatial dimensions (x , y , z) and the infinite *Impulses* $\partial Pi = \partial Wi / \partial Si$ of the Layers at this point existing from Infinite Spaces where i = 1 → ∞ .
Position and Momentum are incompatible variables , because any determination of either one of them , leaves the other completely undetermined , (Zero matrices) i.e.
The Eingenvalues of Spation Position are Incompatible with the Eingenvalues of Momentum (motion) , and so , any **ds** in PNS has a definite Position and Momentum simultaneously.
This is the Relative motion of Spaces in PNS .

3.. Natural Numbers with their discrete nature Symbolize Discontinuity of Spaces , because Physical World is Continuous with Points (***motion*****) and Discrete with Numbers =** ***Monads = ds***
This is , The Dual property of Physical World , also in Physics ,
When Motion passes from every point of line AB , which is then as , passing from the starting point A , where ds = 0 then Velocity also is v(A) = ds/dt = 0 . The same also happens for Motion at point B where Velocity v(B) = ds/dt = 0 . On the contrary , Motion passing on points A , B which consist the dimensional Unit , ds , then velocity v(AB) = ds / dt > 0 i.e. For points A , B not coinciding are as below , [13]

A ds = (AB/ n = ∞) = 0 B	**A ds = → = AB / n= 11 B**
……..…………………………….	→→→→→→→→→→→
***Continuous* (.)**	***Discrete* (ds = →)**

***Since in PNS , v = ∞ , T= 0 , meaning infinite velocity and Time not existing, then any length* AB in [PNS] is constant because AB = ds = Constant = v . 0 = ∞ . 0 . Straight line AB is discontinuous (*discrete*) with dimensional Units ds = AB / n where n = 1 → ∞ , and continuous with points [ds = 0] , (*This is the Dual Nature of lines* ,** *geometry* **, *discrete and continuous*) .**

Spaces Anti-Spaces and Sub-Spaces are ***Homogenous*** because the Points of Monads are also . Since all Directions ÃB , BÃ are equivalent , then PNS ***is also Isotropic*** , i.e all Relative Natural sizes and Laws remain Inalterable with Displacement and Rotation , [11]

Therefore , On any Unit AB = ds > 0 exists , ***an Inner Impulse (P = 0 → ∞) at edge points A , B*** *where* **$P_A + P_B$ = 0** , *for any price of P = 0 → P → ∞* ***i.e. again , The Position and Dimension of all Points which are connected across the Universe and that of Spaces exists , because of this Equal Static Inner and opposite Impulse*** **, on the contrary** ***should be one point only (Primary Point A = Black Hole→ ds = 0 → P = ∞)*** **. Monads = Quantum = ds = AB / (n = ∞ → 0) = [a ± b.i] = 0 → ∞** ***Impulse is ∞ and may be Vacuum , Momentum , Thermal or Potential or Induced Potential and it is one Type of Effect , of Push nature*** **(Impulse → Motion = Energy) ←]**

This Equilibrium presupposes Homogenous Space and Symmetrical Anti-Space .
For two points A , B which coincide , exists *Principle of Superposition* (≡) which is a Steady State containing Extrema for each point separately i.e. In three dimentional Space , the infinite points exist as Space because of the Equal and Opposite Impulses (***Opposite Forces***) which is the ***Notion of Energy in AB distance*** (Points A , B are embodied with the Opposite Forces) . ***The different Static Inner Impulses at points A , B is Energy (all types of change or moving) which has only one Property , that of motion*** . The only Mould in Space is distance (***the first dimentional Unit A B***) , so Motion takes place and can exist only between Points A and B (this is Extrema for ÃB) . Without Space *as it is today* , Motion (***Energy***) does not exist . → ‘ The Non-existent , Exists when is done ’ .Moulds in Euclidean geometry is the way that points are connected . (*Mould for two points A ,B is straight line AB , for three points is the Plane of the three points , for four points is the Space of the four points etc*). [16]

Analyzing Extrema Principle , there was found , ***The Six –Triple Concurrency Points – Line***, which is proved to be the boundaries of Euclidean , Projective and Perspective geometries , [15] i.e the boundaries of the Non-Orthogonal and Orthogonal Coordinate Systems . so ,

Light for example is Impulse (***Energy = Force = Conserved quantity on , ds = wavelength AiBi ,***) which is applied on three perpendicular Space Spheres [The Magnetic Field (Plane) - the Electric Field (Plane) – and the Direction (Straight line)] which follows Pythagoras conservation law of , ***In Plane for Areas*** (The Sum of Areas of the two Changeable Squares is constant and equal to that of Hypotenuse) ***and In Space for Volumes*** (The Total Volume of Consultant Sphere , HO^3 , is Equal to the Sum of Volumes of the three Moving and Changeable Spheres of , ***the first three dimentional Units HP , HC , HJ*** , or $HO^3 = HP^3 + HC^3 + HJ^3$) . It is easy to be seen here the reason of , why Conservation of Energy exists on the three Units and the , why Energy (the motion of Photons) moves as wave and as Particle , (the diffraction Patterns) . Since total energy is conserved , so all interactions are mediated with energy (wave motion) [16] . *Time exists in Relative Motion and it is the numerical order of material change in PNS - Space , and is not a fundamental entity of PNS* .
Distance AB is the metric of a Space (It is the mass of the Spaces AB with the bound State , **$P_A + P_B$ = 0**) . Since the first dimensional Unit ÃB is of two points A , B *which is nothing* and aren’t coinciding , Time has nothing to do with this metric . In article [13 - P5] is shown that the

four dimensional Space is the 4^{th} root of monad ÃB which is ± 1 , ± i , each one representing Real and Imaginary Spaces . Real Space is the Regular Shape of Monad (Triangle , Square , Pentagon , Hexagon , Heptagon etc) and Imaginary Space is Impulse P , (Vacuum , Gravity , Momentum etc) . *Since Particles (wave like) do not enter a Space smaller than their wave length , therefore light does not enter the " Gravity Space " which is a Space smaller than wave length of light .*

Question 2 : Where matter is placed since points is nothing and Space also is nothing . ?
Can we imagine of it as the vessel void of matter ? answer 4 / 4 / 2012

In [10] , [Dipole AB = Matter] is the communicator **of Impulse [P] , with the Bounded Impulses (P_A , P_B)** or **[P] ↔ [FMD = AB – P_A , P_B] → P_A , P_B .**
Every material Dipole is consisted of **AB = [ds > 0] = matter , and as *AB is the first dimentional Unit which create* Spaces , Anti-Spaces and Sub-Spaces then Impulses P_A , P_B exist on their superposition .** (A ≡ B) . **i.e.**

Points A , B on Primary (+) Space is the Positive Dipole which creates **matter** . (m)
Points A , B on Primary (-) Anti-Space is the Negative Dipole which creates the Opposite of matter (mirror) , or **Anti - matter** (the negative matter) . (Am)
Points A , B either be on one Space and Anti-Space alternatively , then is created (nm) **the Neutral matter and Neutral Anti-matter .** (nAm)

The Combination of the four types of matter creates all gauge magnitude (15) , i.e. what is Mass and what is Energy and so all types of Particles and Fields in universe . or as ,

$C^4_1 = 4$ **(m) - (Am) - (nm) - (nAm)**
$C^4_2 = 6$ **(m),(Am) – (m),(nm) - (m),(nAm) -- (Am),(nm) - (Am),(nAm) - (nm),(nAm)**
$C^4_3 = 4$ **(m),(Am),(nm) - (m),(Am),(nAm) -- (m),(nm),(nAm) – (Am),(nm),(nAm)**
$C^4_4 = 1$ **(m) , (Am) , (nm) , (nAm)**

Bounded Impulses P_A , P_B are not created because exist as a fixed state **on Dipole of Spaces. Since Neutral matter** is consisted of these two opposite elements **(+ , -) , therefore all derivatives in this bounded Neutral Space can alternatively exist itself ,** *as comprise both opposite elements* **.** Let be dP = P_B - P_A **.**

Matter , Anti-matter and **Neutral Matter , Neutral Anti-matter → equilibrium , and annihilate when coexist (** ***occupying the same ds*** **).**

When the difference of Impulses dP = P_B - P_A > 0 then Dipole AB is of + (deficit) charge
When the difference of Impulses dP = P_B - P_A < 0 then Dipole AB is of - (deficit) charge

Since Matter (AB) is made up of *Electrons , Protons and Neutrons* i.e. [(-) (+) (± = 0)] and Anti - Matter is made up of *Anti - Electrons , Anti - Protons and Anti - Neutrons* i.e. - [(-) (+) (± = 0)] = [(+) (-) (∓ = 0)] , therefore any *Combination per two for Matter and Anti-Matter is equal to* 15 and *for Neutral Matter* $C^4_2 = 6$. [11]

In Mechanics exist 6 degrees of freedom , [dx , dy , dz , wx , wy , wz] which follow all interactions and all infinite Combinations of monads and their result is all infinite qualities.
The Combinations of the Infinite < *Dipole Points* > create all qualities of matter . [A] **, [10]**
It is also valid the same for , ***Quarks*** [U-D which are massive and 1-dimensional oscillating lines] ***and Leptons*** [Electrons which are charged] **,** which ***are for the moment*** the known smallest fundamental particles in Universe (ds = 10^{-21} m **) , exist ds = 1×10^{-N} < ∞** , where N is any number
Light is radiated at a constant critical speed , in any region of Spaces , Anti-Spaces , Sub-Spaces , while **M.ray (ds = 0)** is inherently applicable to all points of [PNS] with infinite velocity and

zero frequency (A non-zero vacuum value penetrating to all points of PNS) . Matter (***Dipole AB***) is the sole real entity in nature , as it is everywhere and in any Region , i.e anything which is measured (ds) , (dP) in the different Spaces , is matter (particle) in PNS .

PNS is an infinite universal medium in direct conduct with all 3D matter dipoles (Sub-Spaces) in nature under the compression of the inherently infinite Impulse (P) on points [$ds = \partial W / \partial P_s$] ***Attraction*** occurs between Monads AB ($dP = P_B - P_A = \pm$ charge **)** and ***Action*** between points A and B which is the real universal entity interlinking all three dimentional Spaces . Extending or descending AB is simultaneously as gaining or loosing Impulse on points A , B which provides that Work cannot equated to motion since Work is bounded at points ,$W = \int P.ds = 0$, $ds = \partial W / \partial P$ Considering **mass** *as* **the Inertial property of matter ,** *a measure of its energy content , and since* **matter is any Dipole AB with its properties , then what is measured is the material Dipole in a different Space** . (Electricity , Magnetism, Light , Temperature , Vacuum etc) **,** while Bounded Impulses (P_A , P_B) are not . Matter deduces the Laws of Nature at points A , B with (P_A ,P_B) by the interconnection of these Sub-Spaces with them in Primary Neutral Space .

Light is of dual nature : It is of mass (Photon is corpuscular) associated with wave , the electromagnetic wave in Plane , and on straight line , as medium . All Phenomena of light can be explained by corpuscular because ds > 0 and so Photon is of ultimate Speed of motion . Since in [PNS] exists [M.ray → $v = \infty$, $f = 0$, $ds = 0$] then M.ray is the universal Homogenous and Isotropic medium for all interactions in all Spaces . [11-12-13] , [16]
Mechanical Stability of Monads in [PNS] exists on Spaces , Anti-Spaces , Sub-Spaces of each Monad by maintaining Entropy from the constant recycling of Impulses . Stability of Galaxies exists by their Electromagnetic interactions and is not needed Big Bang theory for this .Terrestrial magnetism is formed in PNS by the interaction of **M.ray** on the infinite Monads in Planets . This side of view allows the Spatial extend of all particles in a continuously quantum Space and the substructure all of them in lower and higher Layers *(as this happens for layers on our PC).*

It has been clarified in [11] , [13] what is matter and what is Space . A simple logic follows ,
All matter is the same , because all matter is made of atoms **[R = 10^{-9} – 10^{-12} m] .**
***All atoms is the same, because all matter is made of smaller particles*(*Quarks and Leptons-10^{-21}m*)**
***All Quarks and Leptons is the same because all matter is made of smaller particles*(*Q_1,L_1- 10^{-25}m*)**
All Q_1 , L_1 is the same because all matter is made of smaller particles $Q_{2,3,n} \rightarrow \infty$, $L_{2,3,n} \rightarrow \infty$
All Q_∞ , L_∞ , is the same because all matter is made of $Q_n = 0 \rightarrow \tilde{A}B \rightarrow \infty$ and
$L = (P_A + P_B = 0) \rightarrow P \rightarrow \infty$, i.e out of $\tilde{A}B = 0 \rightarrow \infty$ and $(P_A + P_B = 0) \rightarrow P \rightarrow \infty$
so , this is the first dimentional unit AB and Impulse P on it .

[→ 6. Any two Points **A , B** *on Primary Space or Anti-Space* **,** **consist the first Dimentional Unit AB ,** so itself **,** *using the same Principles of Equality* ***(AB = BA) Inequality and Stability,*** creates ***all Spaces , Anti-Spaces and Sub-Spaces of Unit AB*** *and Since are Property of this Unit only* **, therefore each of these bounded Spaces is a Restrained System of Unit AB . [10]**
Impulse P_A , P_B *at points A , B is Property of these points only and since* also *Spaces, Anti-Spaces and Sub-Spaces of Unit AB is a Restrained System of this Unit AB* , therefore ,*Impulses P_A, P_B at points A,B* , and *the Spaces , Anti–Spaces and Sub-Spaces of Unit AB is a New Restrained System.*

A New Unit with a quite different Quality . THE FIRST MATERIAL UNIT [FMU]
i.e.
The [FMU] is a DIPOLE → the First Material Dipole [FMD = ds = AB – P_A , P_B] .
Δηλαδή : < Η Πρώτη Υλική Μονάδα τού Σύμπαντος είναι τό Δίπολο AB >

$$\begin{array}{ccccc} P\hat{A} & & = & & PB \\ A & \rightarrow \ldots\ldots\ldots \leftarrow & O & \rightarrow \ldots\ldots\ldots \leftarrow & B \quad = \quad [\,\text{F.M.D}\,] \end{array}$$

This Dipole AB may be created , by the opposite displacement ds ↔ of one central point O , or by the Rotation of Dipole AB through this point O . Since **[$ds . (P_A + P_B) = 0$] ,** **ds** is self created .

Central point O may be the ***Prime Point*** or *all infinite points* of Spaces . The position of points A , B *in Spaces and Anti-Spaces* fixes the type of Dipole [FMD] which *can be created* and is a Monad , (*that which is one*) , and it is a part of the whole AB . Impulses P_A , P_B ***cannot be created*** because exist at points A , B and are of the same essence as that of Impulse P .

When the difference of Impulses $dP = P_B - P_A > 0$ then Dipole AB is of + charge
When the difference of Impulses $dP = P_B - P_A < 0$ then Dipole AB is of - charge

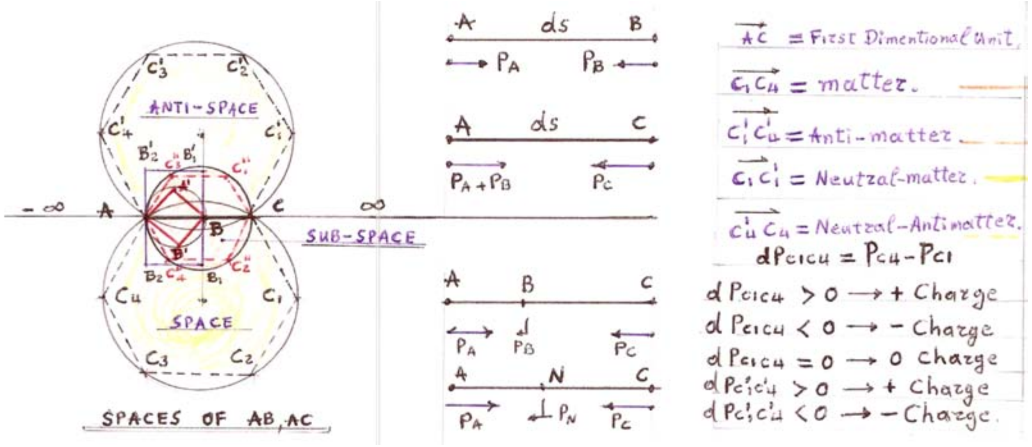
A different manifestation of these Impulses are Natural forces . Gravitational manifestation of these Impulses is enormously stronger than other of their manifestations rooted in them . ***A Dipole AB may be Electric , Magnetic , Vacuum , Thermal etc . For greater distance , Electric Fields behave as Magnetic fields , and this because of the Tides (changes) on A,B . In this way Physical laws are equally applicable through the universe under all conditions and in all Spaces***]

The Bounded Spaces , Anti-Spaces , Sub-Spaces , of the First dimensional Unit AB = a + b.i are composed of the two Elements that of **[Dipole AB = matter]** ***which is communicator AB , and*** **the Impulse [P]** ***of Primary Space , with the Bounded Impulses (P_B , P_A) of Dipole*** or **[P] ↔ [FMD = AB – P_A , P_B] → P_A , P_B**] where **$dP = P_B - P_A$ is of ± charge ,**

i.e. Space is simultaneously one Monad only , and also infinite monads , following *Principle of Equality and Inequality , Principle of Virtual Displacements , Principle of Stability and Principle of Superposition* (A ≡ B) →
or , the equations $\mathbf{W} = \int P.ds = 0$, $\mathbf{ds} = \partial W / \partial P$
$ds = 0 \rightarrow AB = [\mathbf{a \pm b.i}] \rightarrow \infty$, $P_A + P_B = 0$, $\mathbf{dP} = P_B - P_A < = > 0$

Higgs Particle.

Big Bang does not hold in Geometry , so Universe must be acknowledged in another cosmological *Setting and Framework* based on Geometry - Spaces , as the answers of the above questions. A compact presentation with ds = AB →AC and from this all the other framework follows :



C'3
C'2
ANTI-SPACE
C'4
C'1
B'2
B'1
C''3
C''1
A'
- ∞
A
C
∞
B
SUB-SPACE
B'
C''2
B2
C''4
B1
C4
C1
SPACE
C3
C2
SPACES OF AB , AC
A ds B
PA PB
A ds C
PA + PB PC
A B C
PA PB PC
A N C
PA PN PC
AC = First Dimentional Unit,
C1C4 = matter.
C'1C'4 = Anti-matter.
C1C'1 = Neutral-matter.
C'4C4 = Neutral-Antimatter.
dPc1c4 = Pc4 - Pc1
dPc1c4 > 0 → + Charge
dPc1c4 < 0 → - Charge
dPc1c4 = 0 → 0 Charge
dPc'1c'4 > 0 → + Charge
dPc'1c'4 < 0 → - Charge.

THE THREE SPACES [S – A.S – S.S] OF ANY ds = [First Dimentional Unit]
Fg.(3)

A = A point which is nothing , with no Space and not any direction .
AB = $ds > 0 \rightarrow AB = [\mathbf{a \pm b.i}] \rightarrow \infty$, → The first dimentional Unit [FDU] .

ABB_1B_2 = The fourth Space of unit AB
$ABB'_1B'_2$ = The fourth Anti - Space of unit AB
$AA'BB'$ = The fourth Sub - Space of unit AB

$ACC_1C_2C_3C_4$ = The Sixth Space of unit AC
$ACC'_1C'_2C'_3C'_4$ = The Sixth Anti - Space of unit AC
$AC''_3C''_1CC''_2C''_4$ = The Sixth Sub - Space of unit AC

Subspace **$AA'BB'$** is inside Subspace **$AC''_3C''_1CC''_2C''_4$**
AB' = [FDU] is in Spaces **ABB_1B_2 -- $ACC_1C_2C_3C_4$**
AA' = [FDU] is in Anti-Spaces **$ABB'_1B'_2$ -- $ACC'_1C'_2C'_3C'_4$** , shortly ,

1. Primary point A *, having not Position and consequently not any Space existing ,* ***therefore is the only space*** *, and to exist at a second point B somewhere else , point A must move at point B , where then $A \equiv B$. Point* B ***is the Primary Anti-Space*** *which Equilibrium point A .* [PNS] = [$A \equiv B$] . **Since Primary point A is the only Space , then** *exists Principle of Virtual Displacements* $W = \int P.ds = 0$, *or* [**ds .** ($P_A + P_B$) = 0] , i.e. for any $ds > 0$, Impulse **$P = (P_A + P_B) = 0$.** ***Points (PNS) , may exist with $P = 0 \rightarrow$ and also with $P \neq 0$, [$P_A + P_B = 0$ for all points in Spaces and Anti - Spaces] , therefore [PNS] is self created*** *,* ***and because at each point may exist also $P \neq 0$, then [PNS] is a Field with infinite points which have a ± Charge $P = 0 \rightarrow P \rightarrow \infty$.*** **Primary Neutral -Space [PNS] exists with these infinite Points N** with three Spatial dimensions (Xo , Yo , Zo) and the infinite Impulses P.

2. **The Infinite points in [PNS] form Units A_iB_i = ds , which equilibrium by Primary Anti – Space by an Inner Impulse (P)** at edges Ai , Bi where $Pi_A + Pi_B \neq 0$, (*for $Pi_A + Pi_B = 0$ is the Absolute Primary Space*) or as $Pi_A = Pi_B = \pm 0 \rightarrow P \rightarrow \infty$ and also $ds = 0 \rightarrow N \rightarrow \infty$ **.**

3. **Monads = Quantum = ds = AB / (n = $\infty \rightarrow 0$) = [a ± b.i] = $0 \rightarrow \infty$** , are not purely spatial because are Complex numbers . The same exists also for all Spaces , since binomial **ds^n** is a Complex number . **Monads create Spaces (S) Anti -Spaces (A-S) , and Sub-Spaces (S-S) of AB ,** which Sub-Spaces are Bounded *Spaces Anti - Spaces and Sub – Spaces in PNS .* [*Nanotubes follow hexagon Space ≡ Energy in a fixed state*]

4. **Monads ds (dipole AB)** ***, and according to their position in S, A-S , S-S ,*** **make the four types of matter ,** ***and the Combination of the four types of matter ,*** **creates all gauge magnitudes which is Mass and Energy and all types of Particles and Fields ,** ***15 possible types ,*** **correspond to** ***Visible , Invisible , Real and Imaginary Universes (The Visible and Invisible Dark matter and Dark Energy , etc) . Dipole AB is composed of the two Elements →*** **the [Dipole AB = matter ≡ is the communicator] , and the Impulse [P]** ***with the Bounded Impulses (P_A , P_B) .***

5. **The difference of Impulses $dP = P_B - P_A$ > = < 0 of Dipole AB (mass) , creates ± charge F**or very small **ds (** near zero) which happens at the boundaries of Spaces , ± charge may be point charge (*Spaces form open Strings while Sub-Spaces form closed Strings*) . Cosmic rays is a Quantum field from a , *near zero ds* Sub-Space) , and in very large scales **ds** , ± charge is the same Field , (*This because Particles , wave like , do not enter a Space smaller than their wavelength)* .

6. **M.ray interact on the infinite Monads of PNS with infinite velocity and zero frequency. Motion is Continuous and occurs on Dimensional Bounded Units ,** *ds* **, and not on Points (** *this may happen only for very small* **ds** *near zero and at the boundaries of Spaces* **) which are dimensionless .** ***The difference of Impulse $dP = P_B - P_A$ on points A , B and on points Pi_B , Pi_A*** *is ±* **charge** ***Interaction . All particles act as*** **wave and Particle** ***(wave - particle duality) and this because of the Total Energy conservation law of Pythagoras in 2 , 3 Dim .***

7. **The four types of Interaction of particles occur either directly or Indirectly .**

The order of magnitude in (m) for particles is approximately as :

Molecule	diameter	10^{-9} — 10^{-11}	m
Hydrogen Atom	diameter	$2{,}5 \times 10^{-12}$	m
Atom	diameter	10^{-11} — 10^{-14}	m
Gamma Ray	λ.dim	5×10^{-12}	m
Protons	diameter	10^{-12} — 10^{-15}	m
Electrons	diameter	10^{-15} — 10^{-17}	m
Quarks	**diameter**	**10^{-18} — 10^{-21}**	**m**
Leptons	**diameter**	**10^{-21} — 10^{-24}**	**m**
Neutrinos	**diameter**	**10^{-18} — 10^{-NN}**	**m**
Higgs	diameter	10^{-22} — 10^{-24}	m
Strings	diameter	10^{-24} — 10^{-SS}	m
Dark matter	diameter	10^{-SS} — 10^{-DM}	m
Gravity	diameter	10^{-DM} — 10^{-GP}	m
P - ray	λ.dim	10^{-GP} — 10^{-PP}	m
M- ray	λ.dim	$10^{-\infty}$ —	m

Remarks :

Taking Planck length Level , in **S.Model** , where upper speed is that of light , **a case** of matter is as,

For $C^{4}_{1} = 4$ Using FMD [AB] = AB - P_A , P_B ,
1. …… Stable matter [massive Quarks U+D] [Charged Leptons (Electrons)]
For $C^{4}_{2} = 6$ Using FMD [AB] = AB - P_A , P_B ,
2. ……… Stable matter [massive Quarks U+D] [Charged Leptons (Electrons)] [Neutrons]
For $C^{4}_{3} = 4$ Using FMD [AB] = AB - P_A , P_B ,
3. ……… Stable matter [massive DM] [Charged DM.Ions (Particle)] [Neutrinos]
For $C^{4}_{4} = 1$ Using FMD [AB] = AB - P_A , P_B ,
4. ……… Stable matter [massive PNS] [Charged M.Ray (M.particle)] [(nm)(nAm)]

Higgs Boson (particle) is placed in the second case …..
Dark Matter and Energy is placed in the third .....
Black Holes are placed in the fourth case ….…

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