

THE EUCLIDEAN PHILOSOPHY OF UNIVERSE (NATURE)

Universe Originated NOT with BIG BANG

This article describes the Physical reality in terms of Impulse and Space , *matter* , (not as with Big Bang) .It is shown what is matter and how is connected across the universe . Euclidean Geometry is proved to be the Model of Nature. A way also to the concept-ability of Euclid Geometry.

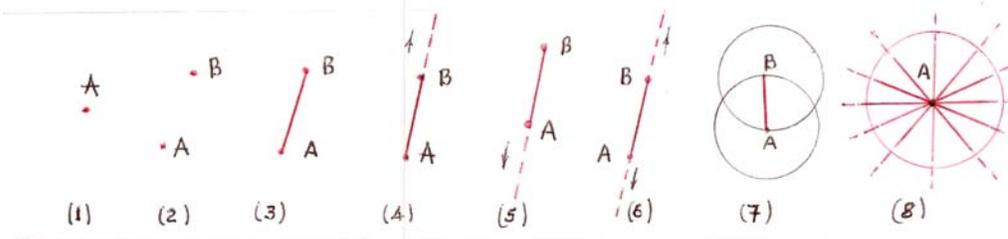
Markos Georgallides : Tel-00357 -99 634628
 Civil Engineer(NATUA) : Fax-00357-24 653551
 15 , N . Mylona St , 6010 , Larnaca Cyprus
 Expelled from Famagusta town occupied by the Barbaric Turks .

Email < georgallides.marcos@cytanet.com.cy >

It is not Accidental the fact that the Perception and Order of Elements of the Euclidean Geometry are with so much conceptual importance to the harmonic order of Universe . This will appear clearly with the analysis which follows .

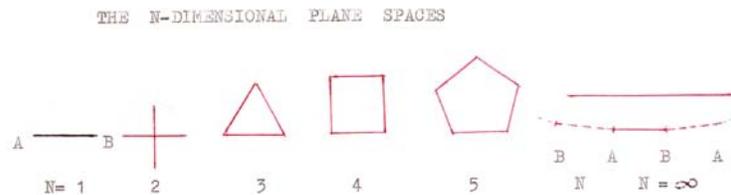
FUNDAMENTAL PRINCIPLES .

1. The Elements of Euclidean geometry are , Points , straight Lines , circle .etc,



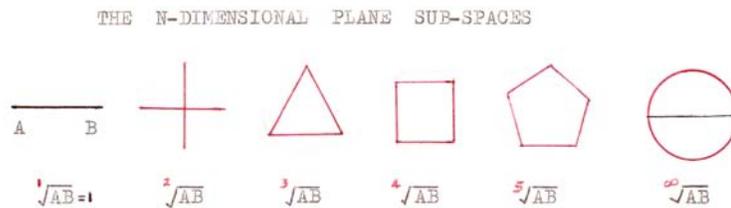
F.1

2. The Space Layers (Regular Solids) with sides equal to $AB = 0 \rightarrow \infty$
 The Increasing Plane Spaces by Reputation of the same Unit AB . [9]



F.2

3. The Sub-Space Layers (Regular Solids on AB) as Roots of $AB = 0 \rightarrow \infty$
 The Decreasing Plane Spaces by Reputation of the same Unit AB . [9]



F.3

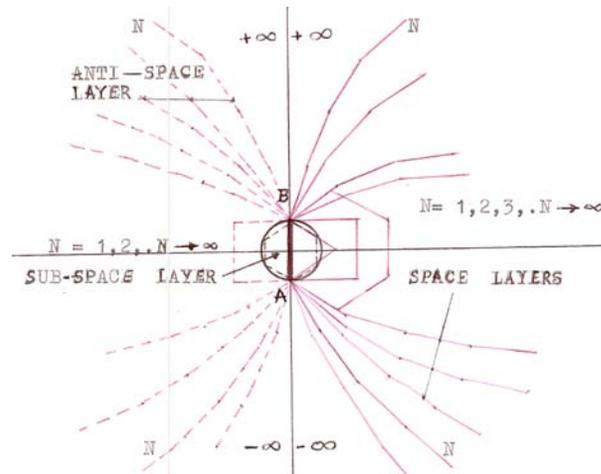
Since $\sqrt[2]{1} = \pm 1$ or $[-1 \leftrightarrow +1]$, therefore **xx** coordinate system represents Spaces and Anti-Spaces.

Since $\sqrt[3]{1} = [1, -\frac{1}{2} + (\sqrt{3}.i)/2, -\frac{1}{2} - (\sqrt{3}.i)/2]$ therefore **xx-y** coordinate system represents Spaces Anti-Spaces and + Complex numbers. + i

Since $\sqrt[4]{1} = \sqrt[2]{\sqrt[2]{1}} = \sqrt[2]{\pm 1} = [+1, -1], [\sqrt[2]{-1} = +i, -i]$ or $-1 \leftrightarrow +1, \updownarrow$
 therefore coordinate systems **xx-yy** represents all these Spaces. -i
 (Real and Complex numbers)

4. The Superposition of Plane Space, Anti-Space Layers and Sub-Space Layers :

The simultaneously co-existence of Spaces, Anti-Spaces and Sub-Spaces of any Unit $AB = 0 \rightarrow \infty$, i.e., Euclidean, Elliptic, Spherical, Parabolic, Hyperbolic, Geodesics, Metric and Non-metric geometries, exists in Euclidean Model as a Sub case within. The Interconnection of Homogeneous and Heterogeneous Spaces Anti-Spaces and Subspaces of the Universe. The Unity of Opposites. [9]



F. 4

1. Any single **point A**, constitutes a Unit which has neither Position (direction) nor Dimension (magnitude). It is non-dimensional = The Empty Space, (F.1,1)

Any single **point B not coinciding with A**, constitutes another Unit which has also dimension zero. Only **one straight line** (ie. The Whole is equal to the Parts, or the equation $CA + CB = AB$) passes through points A and B which consists another non-dimensional Unit, since it is consisted of infinite points. (F.1,2,6)

A line Segment AB between points A and B, (either points A and B are near zero or are extended to the infinite), **consists the first Unit with one dimensional**, the length AB, beginning from Unit A and a regression ending in Unit B, (F1-3) Adding a third **point C not on the straight line AB**, i.e. $CA + CB > AB$, then is constituted a new Unit (the Plane) without any Position or dimension, since is also consisted of infinite points without any Position (direction) or Dimension, magnitude. Quantities involving both *Direction and Magnitude*, are called *Vector quantities* and those involving only Magnitude are called *Scalar quantities*. F1-7,8.

2. One dimensional Unit AB is the geometrical Shape that has as Position the (direction \hat{AB} , $B\hat{A}$) and as Magnitude (the length $AB = 0 \rightarrow N \rightarrow \infty$).(F1-3)
 ds = An Infinitely small increment of length AB in the direction AB
 ∞ = An Infinitely great magnitude AB in the direction AB , BA .
3. **Spaces of Unit AB** are (in Plane) the Infinite Regular Polygons inscribed in the circle *with AB as Side* ,(repetition of Unit AB) the Nth Space , the Nth Unit Tensor of the N variables (N finite Elements) and the ∞ Spaces , line AB . (F.1,4 - F.2)
4. **Anti-Spaces of Unit AB** are (in the three dimensional space) the Symmetrically Infinite Regular Solids inscribed in the Sphere *with AB as side* of the Solid , (Harmonic Repetition of Unit BA , symmetrical to AB) , the Nth Anti-Space , the Nth Unit Tensor of the N Anti-variables (the N finite Elements) and the ∞ Spaces , line BA . (F1-5) , (F2)
5. **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 variables (N finite Roots and in case of ∞ Elements are the points on the circle) . (F1-6) , (F.3)
 The Superposition of Spaces , Anti - Spaces and Sub-Space Layers of Unit AB is shown in F4 .

ANALYSIS OF SPACES

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

The Position AB is shown in (F.1) 3,4,5,6,7,8 – (F4) , and magnitude N is as ,

$A = B$ = *Principle of the Equality* .

$A \neq B$ = *Principle of the Inequality* .

$A \rightarrow \leftrightarrow \leftarrow B = \infty$ *Principle of Virtual Displacements* . $\mathbf{W} = \int P \cdot ds = 0$, $d\mathbf{s} = \partial W / \partial P$

$P_A + P_B = 0$ *Principle of Stability*

- a. $N = 0$, Point B coincides with point A . [*Principle of the Equality $A = B$*]

The Zero Spaces , Anti - Spaces and Sub-Spaces coincide at point A which point may be anywhere , (*presupposition is the existence of Space*) and this happens only with the infinite straight lines in all directions passing through point A , which has no Position .

Empty Space , are the infinite Points on straight lines through point A which coincide with this point A . (F1., 8)

- b. $N = AB$, Point B is such that , $0 < N < \infty$, [*Principle of the Inequality $A \neq B$*]

The Spaces , Anti - Spaces and Sub-Spaces are created from Unit AB with the Fix Position $AB \leftrightarrow$, and are the Vertices of the Regular Polygons and Anti - Polygons (*inscribed in the circle with AB as side , and also inscribed in the circle with AB as diameter*) , and the Nth Space , the Nth Unit Tensor of the N unit variables (or N finite Elements) . (F4)

Empty Space , are the Infinite Points of Spaces , Anti - Spaces and Sub-Spaces of Unit AB with Position $AB \leftrightarrow$, and Dimension $N = AB$. (F4)

- c. $N = \infty$, Point B is in Infinity , $N \rightarrow \leftrightarrow \leftarrow$, [*Principle of Virtual Displacements*]

The ∞ Spaces , Anti - Spaces and Sub-Spaces are created from ∞ Points only, without Position and Dimension , and are *within these* infinite enclosed points.

Since Spaces , Anti - Spaces and Sub-Spaces are created from Unit AB , and are Property of this Unit only , therefore these are a Restrained System (S)

Presupposition for Unit $AB = ds$ (displacement ds) , is Point A to move at the New position B ($A = B$) , which 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 displacements ($ds > 0$) is zero , or
$$W = \int_{A-B} P \cdot ds = 0$$

Therefore , Each Unit $AB = ds > 0$ exists , by this Inner Impulse (P) .

i.e. The Position and Dimension of all Points which are connected across Universe and that of Spaces exists , because of this Static Inner Impulse , on the contrary should be one point only (Primary Point = Black Hole $\rightarrow ds = 0$) .

Impulse is ∞ and may be Vacuum , Momentum or Potential or Induced Potential.

Since the Primary Point may be , ***in either one or in many Points*** , (Position) ***and as this is the only Opposition in this Point , therefore , this Primary Point is the first Restrained System (S)*** and so , this System creates **ds** following the three ***Principles of Equality , Inequality and Stability (Virtual displacements)*** .

In case Primary Point is the only Point ***in one Point*** , then all points that consist the Primary Space are within this Point , interconnected with Finite and Infinite **ds** and in Infinite Positions , where $0 < ds < \infty$ and $0 < N < \infty$ which coincide .

In case ***Primary Point*** is the only Point ***in Many Positions*** , then all ***Many Positions are these Points of Primary Space*** , and the Infinite Units $0 < AB < \infty$ create each one the Infinite Spaces , Anti-Spaces , Sub-Spaces of these Units. All Points of Universe which consist a Space , are these of Primary Space which exist in the only Point , and are connected across Universe by this Inner Impulse (P) . ***(The Uniting of Opposites)***.

Empty Space , are the Infinite Points , *either these coincide or not* , created from a Primary Point , that creates Units (ds) and from them all Spaces , *with all above Properties* , and by the Interconnection of all Spaces all New Units with all New Spaces and so on (*The Uniting of all Opposites*) . (F1, 1-8) , (F4)

Since Virtual Work (*Stability of Opposites*) is related only on Impulse (P) and displacements (ds) , Time or other variables are not Properties of Primary Space. The correlation of Spaces created by units AB with the $0 = N = \infty$ Unit variables (the N finite Elements = N Degrees Of Freedom) are contained Properties .

The Two Independed Variables in Universe are, Impulse ($P = 0 \rightarrow \hat{A}B \rightarrow \infty$) , $P = Vacuum$, Momentum , Potential (Zero or Induced) , Temperature or Dynamic Energy and else) and Displacement ($ds = 0 \rightarrow AB \rightarrow \infty$) , Where ds in all directions is Translation and Rotation . All other Variables are Depended .

- d. **Since the FIRST POINT (A) , may have or not --Position and Magnitude-- and as this is the only Opposition in this Point , then this Point is the first Restrained System which creates ds itself , by following the Principle of the Equality the Principle of the Inequality, and Principle of Virtual Displacements , and then creates with all the other correlated points (B) of Primary Space , Units AB , with the ∞ Altering Spaces Anti-Spaces and Sub-Spaces of these Units AB .**

The Interconnection of all above is what EXISTS and what IS DONE . Each Point and Unit AB exists , by an INNER IMPULSE (P) , so Space maybe defined via this fundamental quantity P , at points A,B of AB .

Conclusions 1

- a. **Identifying Principles of Equality ($A = B$) and Inequality ($A \neq B$) , then is crated for Stability the Restrained System of Virtual Work [$\sum P_i \cdot \Delta s = 0$] . Applying these Principles on Primary Point A to exist the same as it is in many Points B , Impulse ($P = 0 \rightarrow \hat{A}B \rightarrow \infty$) and Displacement ($ds = 0 \rightarrow AB \rightarrow \infty$) where $W = \int P \cdot ds = 0$, create all infinite Static Primary , Spaces and Anti-Spaces .**
- b. **The Stability (Equilibrium) of theses Primary Spaces exists with the Negative(- ∞) Anti-Spaces , based on the same identified Principle of Equality and Inequality and that of points A , A' , by the equal and opposite Impulse (P , - P) . Primary Space and Anti-Space form an Equilibrium Parent System , which is a deficite (difference) of opposite Impulse ($\leftrightarrow = P_A + P_B = 0$) .**
- c. **The infinite combinations of these two In-depended variables (P , $ds \rightarrow \Delta s$) contain in itself all infinite Static Primary Spaces . On point B exist infinite common Impulses ($P = 0 \rightarrow \hat{A}B \rightarrow \infty$) , due to the Stability of the Primary Spaces and Anti - Spaces [$W = P \cdot \Delta s = 0$, and $P_{,AB} = (\sum Li \cdot Pi) / \Delta s$ $i=1 \rightarrow \infty$, where Δs , Li , is any dimensional unit distance] , and connects the many points within infinity .**

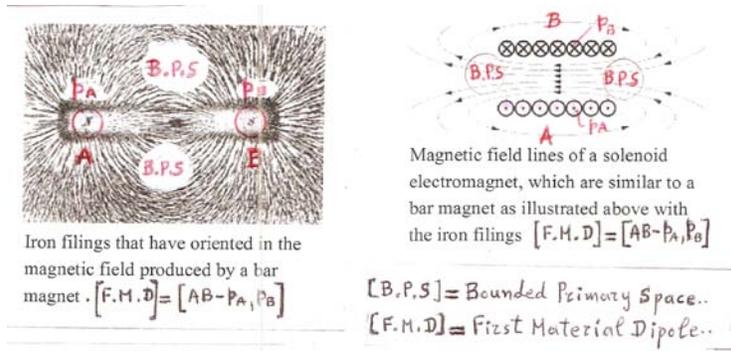


Fig.6

$$\begin{array}{c}
 P_A \qquad \qquad \qquad = \qquad \qquad \qquad P_B \\
 A \rightarrow \dots \dots \dots \leftarrow O \rightarrow \dots \dots \dots \leftarrow B = [F.M.D]
 \end{array}$$

e. Since the Identification of Principles of Equality and Inequality create under Stability the Restrained System of Virtual Work [$\sum P_i \cdot \Delta s = 0$], this new System consisted of Impulse and Displacement is a NEW UNIT . (Νέα Μονάδα) . i.e. All these New Units in all directions of , ds , (linear , Plane , three dimensional , degrees of freedom) are the Infinite Points of Primary Space and Anti-Space.

Conclusions 2

a. Any two Points A , B on Primary Space or Anti-Space , consist the first Dimensional 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 . Fig 5

Since 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] . Η Πρώτη Υλική Μονάδα

i.e. The [FMD] is a DIPOLE \rightarrow the First Material Dipole [$FMD = AB - P_A , P_B$].
 Δηλαδή : < Η Πρώτη Υλική Μονάδα του Σύμπαντος είναι το Δίπολο AB >

Fig. 7

$$\begin{array}{c}
 P_A \qquad \qquad \qquad = \qquad \qquad \qquad P_B \\
 A \rightarrow \dots \dots \dots \leftarrow O \rightarrow \dots \dots \dots \leftarrow B = [F.M.D]
 \end{array}$$

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 . 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] can be created and consist a Monad and a part of the whole AB . Impulses P_A , P_B cannot be created because are the essence of Impulse P.

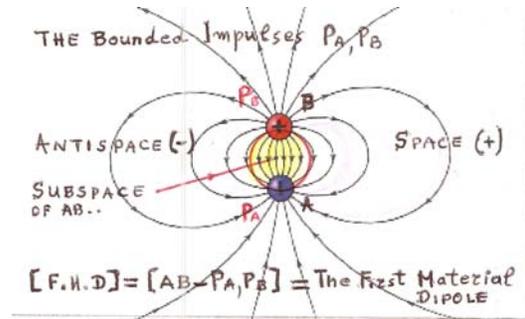


Fig. 7

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

Bounded Primary Spaces- Anti-Spaces can be created , so Dipole AB on Spaces are the Units of matter , and **Impulse $P \leftrightarrow [FMD = AB - P_A, P_B] \rightarrow P_A, P_B$** i.e. [**Dipole AB = Matter**] is the communicator of **Impulse [P]** , with the **Bounded Impulses (P_A, P_B)** or [**P**] $\leftrightarrow [FMD = AB - P_A, P_B] \rightarrow P_A, P_B$. Fig.7- 8

Every material Dipole is consisted of **$AB = [ds > 0]$** and as , **AB is the first dimentional Unit which create Spaces , Anti-Spaces (F2) and Sub-Spaces (F3)** then **Impulses P_A, P_B** . exist on their superposition (F4) i.e.

Impulse into the bounded Spaces of AB , exist as a deficite of Impulse at points A and B . For $AB = 0$ then Impulse exists in every point as Angular Momentum and For $AB = \infty$ Impulse exist in all Spaces of AB .

Bounded Impulses P_A, P_B cannot be created because exist as **the 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 elements .** (According to Dr. Florentine Smarandache the Unmatter)

Since **Matter is made up of Electrons , Protons and Neutrons i.e. [(-) (+) ($\pm = 0$)]** and **Anti - Matter is made up of Anti-Electrons , Anti-Protons and Anti-Neutrons i.e. - [(-) (+) ($\pm = 0$)] = [(+) (-) ($\mp = 0$)]** , therefore any **Combination per two for Matter and Anti-Matter is equal to 15 and for Neutral Matter $C^4_2 = 6$. F.8** The Combinations of the Infinite < **Dipole Points** > create all qualities of matter .

Considering **mass as the Inertial property of matter 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 , etc) , while **Bounded Impulses (P_A, P_B)** are not .

The interconnection of Spaces exists by Primary or external Impulse on them .

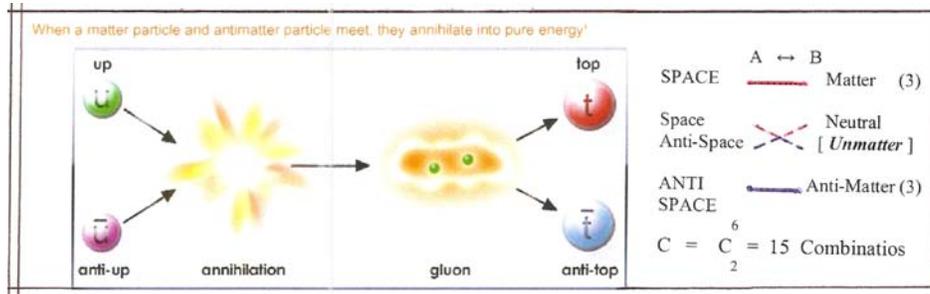


Fig 8

b. Between points A , B of [PNS] and Anti-Space , i.e. [FMD = AB – P_A , P_B] , and on line AB exist infinite points A_i , B_i with Impulses P_{iA} , P_{iB} that attract each other , and so forming the first Motion of the bounded Impulses P_{iA} , P_{iB} . Between points A , B of [PNS] and Anti-Space , i.e. [FMD = AB – P_A , P_B] , and on line AB exist infinite points A_i , B_i which form ∞ [FMD_i = A_iB_i – P_{iA} , P_{iB}] that collide each other, and so forming the first motion of Dipole [A_iB_i] . All move in the first Unit AB ↔ ∞ , with P_A = P_B = ∞ . [FMD = ∞ – ∞ , ∞] . Fig.10

Motion occurs into these bounded States of [PNS] and Anti-Space , and because of the different Impulses P_A , P_B of points A , B and that of Impulses P_{iA} , P_{iB} , either on straight lines AB or on tracks of Spaces , Anti-Spaces , Sub-Spaces of AB . Since in Primary bounded Space AB is always $ds = 0 \rightarrow AB \rightarrow \infty$ and since also is

↓ Communicator ↓

Impulse P → on [Bounded Primary Space - Anti-Space] is → Bounded Impulse P_A , P_B then

Points A_i , B_i with P_{iA} , P_{iB} (of Spaces , Anti-Spaces , Subspaces of AB) move in Spaces of AB (Primary Space is not moving) and in case of ∞ Space , circular motion.

The Infinite Impulse (P = ∞) on Neutral [B.N.S] moves these Bounded Spaces with Infinite velocity (v = ∞ m/s) and zero frequency f = 0 . → [M . ray]

Question . How Dipole [FMD] apply Impulse on [FMD_i] ?

Answer . By colliding P_A , P_B of [FMD] , on P_{iA} , P_{iB} of [FMD_i]

Question . From where the Impulse that is used to make this happen , comes from ?

Answer . From → [M.ray] , by Vibration , Rotation and Translation .

The Finite Impulse (P = ÂB) on Neutral [B.N.S] moves these Bounded Spaces with finite velocity (v = c m/s) and frequency f . [All rays]

A Dipole [FMD_i] can't come to be in motion unless an Impulse is applied , and an Impulse can't be applied unless there is [M.ray] available to apply the Impulse.

Since Neutral Bounded Spaces comprise derivatives of both spaces (Space , Anti-Space) and can alternatively exist itself , then motion of Dipole may occur to both Spaces with opposite Qualities (like the dual nature of Light (Photon = AB – P_A , P_B) as Electricity and Magnetism P_A , P_B →) . Fig 9 , 10

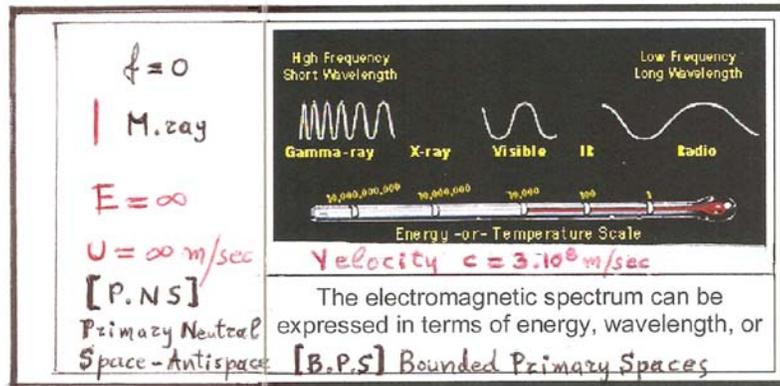


Fig. 9

MOTION IN PRIMARY SPACE and motion of DIPOLE SPACES

Motion of [B.N.S] occurs in [PNS] therefore Time exists in [PNS] and so Time cannot be substance of the Neutral Spaces . [The only one Substance is Impulse ($P = 0 \rightarrow \hat{A}B \rightarrow \infty$) which is connected with all bounded Impulses P_{iA}, P_{iB} , of Displacement ($ds = 0 \rightarrow AB \rightarrow \infty$) of Unit AB].
 Time is not existing , because becomes from the motion of matter (Dipole AB) .
 Since [M . ray] is the result of the Infinite Impulse ($P = \infty$) on Neutral [B.N.S] which moves this Bounded Spaces with Infinite velocity ($v = \infty \text{ m/s}$) and zero frequency $f = 0$, therefore \rightarrow [M . ray] , is a Quality Material with zero Inertia , while all others belonging to different Space Layer , are Material with finite Inertia.

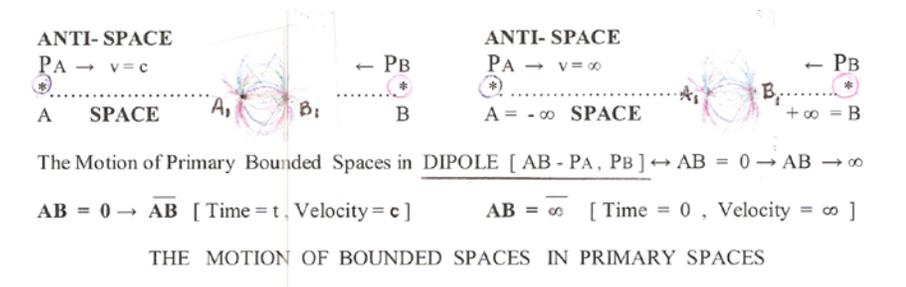


Fig. 10

Motion of Spaces ($ds \neq 0$) occurs in Primary Neutral Space ($ds = \infty$) where then exists a Stable State , and this because of Primary Space and Anti-Space .

Since this Neutral Space is the interval between , Impulse P which P is the Principle of movement , and Spaces which Spaces are the medium of movement , ($ds \neq 0$) , therefore , Motion can alternatively occur itself as that of Dipole = matter (which is particle) and as that of Impulses PA, PB (which is wave) in the Neutral matter and Neutral Anti-matter . (the one thing as Particle and as Wave Structure) .
 or Cause on \rightarrow Communicator \rightarrow the Obvious ,
 and generally , the reproduction Principle for the infinite different (Monads) is \leftrightarrow
 Obvious through \rightarrow [Communicator = DNA] \rightarrow Obvious. i.e. the Principle Monad can reproduce itself through its bounded Communicator , (DNA) .

Conclusions 3. THE AXIAL – CENTRIFUGAL MOTION OF SPACES

- a. $B' \leftarrow A \rightarrow B$ c One degree of Freedom (linear). $AB = AB'$
- b. c (b') $a \perp$ (b) Two degrees (Plane) $ab=ab' =ac=ac'$, $ab \perp ac$, $ab' \perp ac'$
- c. $a \perp B$ c' Three degree (Globe) $a_B = a_C = a_n$, $a_B \perp a_C \perp a_n$

1. Since Primary point O may be at point A and in all directions (all degrees of freedom) ,only when exists another one point A' such that $OA + OA' = 0$ and $O\hat{A} + O\hat{A}' = 0$ (or $OA = -OA'$ and $O\hat{A} = -O\hat{A}' = -O\hat{A}$) ,then this process is equivalent ,in the two dimentional space , to the two equal and perpendicular First dimentional Units $OA \perp OB$ and $OA' = -OA$, $OB' = -OB$. (b) . This is the dual nature of Dipole $AB = [matter] \perp [matter]$

2. It has been proved [8] that the two equal and perpendicular Units AB , AB' , (in plane B'AB) construct the Isosceles rightangled triangle BAB' and the three circles on the sides as diameters . From any point D on the first circle is consctructed the square ADEH with vertices on the three circles . This Geometrical Formation is a **moving Machine** and is called < **Plane Formation of Constructing Squares** >

The Plane System of triangle ABB' with the three circles on the sides as diameters consists *the Steady Formulation* , and square ADEH *is the moving Changeable Formulation of this twin , System - Image* (The Plane System of the Squares – Antisquares) . On this **System** of these three circles (The Plane Procedure which is a Constant System) is created a continues and also a not continues Symmetrical Formation . The changeable System of the Regular Polygons and the **Image** (The Changeable System of the Regular anti-Polygons) , as this is in **Space** and also this in **Time** it is proved that , in this Constant System , the Rectilinear motion ($C \leftrightarrow$) of the Changeable Formation is Transformed into a twin Symmetrically axial - centrifugal rotation (A , $\hat{A}O$) (the motion of Spaces) on this Constant System .

3. The conservation of the Total Impulse and Angular Momentum , as well as the conservation of the Total Energy in this Constant System with all properties included exist in this moving Spaces and Anti-Spaces (the Images) of the one - dimensional point units A , A' - B , B' , as well as , in Primary ∞ Constant System .

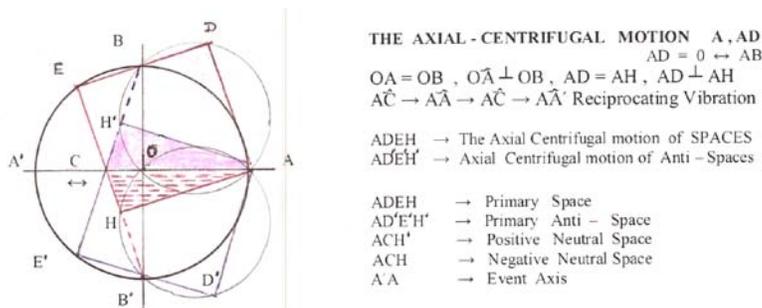


Fig ,11

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Markos Georgallides