

REVIEW ARTICLE

Remarks referring to my Poster Presentation at the 6th Edition of the Chemistry World Conference Barcelona, Spain 18-20 June 2026 Part 2

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Abstract

In continuation of the **Abstract First Part**, included within the **Annexes Part 2**, will continue the explanations of the ideas launched within the Poster Presentation.

The description of the **WORLDALL** – as MANIFESTED WORLD of the DIVINE one – consists of simultaneous or/and alternative presentation of both – quantic/particle/architectural and field/wave/urbanistic – sides of the perceived reality. In this context, within the **STRUCTURAL COMPONENTS** of this description we can distinguish **3 main approximations**, as follow:

1) Chemical, with the chemical elements as particles, and the Whole Periodic System as field-system. **2) Physical**, with the Etheronic Tesseract components as elementary particles and hexahedral/hypercubic tesseract components as multidimensional field-system, based on the Etheronic Tesseract Unity. **3) Mathematical**, with the prime numbers as elementary particles, which generate harmonic waves inside the „prime wave fields”, starting with the Etheronic Tesseract and continuing with the union of all regular (Platonic), semiregular (Archimedean and their dual Catalan) and irregular (Johnson, respectively Talata) polyhedrons with regular polygons and completions, based on the assertion that to each polygon belongs at the very least one polyhedron, even so there exist only **5 regular polyhedra** (the Platonic solids) in 3D, 6 in 4D, and 3 for every dimension inside the multidimensional space higher at 4D!

In the **First Part** were presented the **Chemical** and **Physical approximations**, following the presentation of the **Mathematical approximation** within the **Part 2** of the **Remarks**, with a special attention referring to the **distribution of the prime numbers/primes among the integers**, in context of Bernhard Riemann's hypothesis, better known as Zeta Function (1859) – preceded by Pietro Mengoli's introduction of the Basel problem (1644) and Leonhard Euler's researches (solving of the Basel problem, 1734, and apparently irregular numbers, 1755) – in connection with the fact that **all nontrivial zeros have a real part of exactly $\frac{1}{2}$** , one of the Millenium Prize questions, in spite of the countless attempts without a successful solution.

1. Introduction

1.1 About the prime numbers/primes

According to the **definition**, a **prime number/prime** is a **whole number >1** , that can only be divided evenly by 1 and itself (factors), number 1 being not prime, and number 2 being the only even prime. The not-primes are composit numbers. **Fundamental**

theorem of arithmetic: every **natural number >1** is either a prime itself, or can be factorized as a product of primes, that is unique up to their order. **Primality test:** n is a multiple of any integer between 2 and $\sqrt{n}$. **Eratosthenes-sieve** (276-194 BC): an ancient algorithm for finding all prime numbers up to a specific limit n , with iteratively crossing out every composit number that is a multiple of a known prime,

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leaving only the prime numbers uncrossed. Euclid (~300 BC) demonstrated that there are infinitely many primes. The **prime numbers theorem** describes the asymptotic **distribution of prime numbers among the positive integers**, stated in 1896 by J. Hadamard and V. Poussin, both students of A-L. Cauchy, using the ideas of B. Riemann referring to the Zeta function, the first distribution being: $\pi(N) \sim N/\log(N)$, with the $\pi(N)$ prime counting function. The **Riemann Hypothesis** is the conjecture that the **Riemann Zeta function** has its **trivial zeros** only at the negative even integers -2, -4, -6,... and the **nontrivial zeros** with their real parts $\frac{1}{2}$, in an infinite zigzagging region called critical strip, respectively critical line.

From the ancient times, starting at least with Euclid (300 BC), the study of **prime numbers** and **perfect numbers** – a perfect number being a whole number, that equals the sum of its positive proper divisors (except the number itself), first examples being 6, 28, 496 – evolved in parallel, with special contribution of Marin Mersenne (1588-1648) and Leonhard Euler (1707-1783), the **Euclid-Euler theorem** referring to the statement of Euclid that if $2^n - 1$ is **prime**, then $2^{n-1}(2^n - 1)$ is **perfect**, and to the conclusion of Euler that all even **perfect** numbers are of the form stated by Euclid $q(q+1)/2$, where q is a **prime** of the form $2^p - 1$ for positive integer p , namely a Mersenne prime number. These reciprocal statements are based on the previous statement (without proof) of Nichomachus (100 BC) that every perfect number is of the form $2^{n-1}(2^n - 1)$, where $2^n - 1$ is prime. In other words, it exists an **one-to-one correspondence** between the (polygonal disposed!) **even prime numbers** and the **Mersenne primes**. It is stated that no odd **primes**, respectively no odd **perfect** numbers exist, except the number 2.

1.2 Historical Background

The preoccupations with the **prime numbers** between the **real numbers**, respectively with the **perfect numbers** between the **prime numbers**, denote first of all a 3-stepped worldstructure! So, the **wave-particle duality** will transform into a **trinity**, more exactly into a quaternionic system consisting from a 3-componental/interactional system with their quaternionic resultant. What is this third interactional component? The **wave-particle unity**! In geometrical form the **united cube** and tetrahedron along their equal common edges and the two adjacent faces, proposed to call it Etheronic Tesseract, instead of wave **or** particle adding wave **and** particle!

This uniting process in **Mathematics** took place in the last millenia, with accelerated rhythm in the

last centuries, and reflect the evolution of the brain structure and of the human thinking. Focusing on the Mathematical-Physical record in the last centuries, is determinable a genuine continuity, as follows: Mersenne 1588-1648, Newton 1643-1727, Euler 1707-1783, Gauss 1777-1855, Boole 1815-1864, Riemann 1826-1866, Hinton 1853-1907, Hilbert 1862-1943, but this continuity was decisively influenced by the double of Gauss called Wolfgang **Bolyai** Farkas, a really Divine Medium, who received „from above” continuously mathematical-physical-chemical informations, and sent them to his „best friend” **Gauss**, former student colleague at the Göttingen University between 1796 and 1799, and all their **parallel life** till Gauss's death in 1855, he being professor at this University and director of the local observatory. Gauss – the „king of mathematics” – distributed these notices between the most suitable **mathematicians** and **physicists** (the **chemical** table was discovered in 1860, between the papers of his son died that year), who elaborated them in detail. Between others, there were 4 main same distributing points of time/periods: **1)** Earlier Gauss-Bolyai period, real-complex-quaternionic-octonionic-sedenionic numerical systems and scalar-vector-tensor-spinor physical forms, in connection with the works of Hamilton (1805-1865), Grassmann (1809-1877), Cayley (1821-1895), Clifford (1845-1879); **2)** Later Gauss-Bolyai period, a few years before their death 1855-1856, marked by works of Schlafli (1814-1895), Boole (1815-1864) and **Riemann** (1826-1866); **3)** One generation after their death, four-dimensional problems, tesseract, Charles Howard **Hinton** (1853-1907); **4)** Two generations after their death, many undistributed, unsolved mathematical problems, David Hilbert (1862-1943).

Referring to the **previous Euler-period**, it's remarkable his contribution to the decisive mathematical branches, between many others he introduced the lowercase π , function $f(x)$, imaginary unit $i = \sqrt{-1}$, capital Sigma, capital Delta, polyhedron theorem $V + E + F = 2$ (V =vertexes, E =edges, F =faces), lowercase letters for sides of a triangle, Capital letters for its angles, base of the natural logarithm e , applied mathematics, optics (microscopes, telescopes), solved several unsolved problems in **number theory**, inclusive the **Basel problem** (Sum of the infinite series of the reciprocals of the squares of positive integers: $1/1^2 + 1/2^2 + 1/3^2 + \dots = S_{n=1}^{00} 1/n$, this infinite Sum evaluates to a finite number: $\pi^2/6$). In totality **Euler** – as a prelude of the synchron Gauss-Bolyai, who alluded to this question in form of **Gauss's prime number theorem**, namely $\pi(x) \sim x/\ln(x)$, or for large

numbers $n(\ln(n)+\ln(\ln(n)-1))$ – prepared the way for **Riemann's Zeta Function**, respectively **Riemann's Hypothesis** referring to this function, within his work „Über die Anzahl der Primzahlen unter einer gegebenen Grösse“, 1859.

Referring to the **period nr. 1) – Gauss-Hamilton-Cayley**, after the **real numbers**, Gauss elaborated the **complex numbers**, Hamilton the **quaternions**, Cayley the **octonions**, and Grasmann the **extension theory** (Ausdehnungslehre). In the last decades, the Mironov Father and Son from the Mathematical Research Institute in Nijni Novgorod, elaborated the **sedenions** and probably the **32nions** and **64nions**, included in the **whole numerical system**.

Referring to the **period nr. 2) – Gauss-Riemann**, beyond the binary logic system (The Laws of Thought, 1864) of George Boole and higher dimensional spaces (vielfache Kontinuität, 1855) of Ludwig Schlaflf, the most remarkable is the many times mentioned Riemann's Zeta Function and Hypothesis (1859), as unsolved question between the 23 Hilbert-problems and Millenium Prize Problems alike. The problem referring really to the **distribution of the prime numbers** between the **reals**, respectively later the **complexes**, first of all the question is putted erroneously, this distribution being considered **CHAOTIC**! Summarizing the Riemann's questions, the requested solution is exactly to determine the **primes'** and **perfects'** system!

Referring to the **period nr. 3) – Hinton**, the trials to approach the fourth dimension with **tesseract** arrived from George Boole (1815-1864), founder of mathematical **binary** logic, to Charles Howard Hinton (1853-1907) in 1880, through his marriage with Mary Ellen Boole, daughter of George Boole, elaborated with help of her sister Alicia Boole Stott (1860-1914).

Referring to the **period nr. 4) – Hilbert**, the undistributed papers, after the death of Gauss in Göttingen (1855) remained by his (caretaker) first daughter Wilhelmina/Minna, married with the orientalist professor Heinrich Ewald. After the death of both parents, their sole spinster daughter **Sophie Wilhelmina Caroline Ewald** (1832-1892) moved from Göttingen to Königsberg, to the relatives of her father, where she died in 20 April 1892, the „Kasten“ full with Gauss-Bolyai papers arriving in the possession of Kathe Jerosh and David **Hilbert** close relatives, married in 12 October 1892! Hilbert published in 1900 the 23 unsolved problems (AI)!

2. New Approximations of the Etheronic Structure

Howard Hinton didn't invent the notion of **TESSERACT**, he only took over it from George Boole's daughters, and searched the Fourth Dimension with a rare obsession, together with the sister of his wife, Alicia, preparing thousands of models and drawings, but focusing their attention to the **faces** of the **cube** and hypercube, instead of the **diagonals**, in spite of the taken over denomination **tesseract**, interpreted as **four rays**! Correct it is **tessera-acta**, plural of the neuter word **act**! Yes, so remembered I after the Greek lessons in the baroniel castle, but primordial is the **ray-source**, the intersection point of **minimum two rays**, called Elementary Light-Bubble Unity (**ELBU**), by no means **PHOTON**, which really is the **GRAVITON**, not a **LIGHT-PARTICLE**, but the „particle“ of the **GRAVITATION** (ss47)! The extension from the level of the elements to the elementary particles (in previous termins from Popescu, 1982), the start **elementary particle** of the **Etheric** level between the cosmic evolutionary levels, the corresponding start **element** on **Physical** level being the **ELECTRON**. The geometrical form of the **ETHERON** being the **TETRAHEDRON**, from the unification through an edge&face of the **CUBE** with that of the inner **TETRAHEDRON** resulted the so called **ETHERONIC TESSERACTA**, as the **initial model of the WORLDALL**, realized through the unification of the first two regular **POLYHEDRA** (Tetrahedral and Cubic), with possibility to expand the **CUBE** around the **four-rays**, respectively with successive addition/unification of all possible **POLYHEDRA** (pentagonal/Dodecahedral, hexagonal, octogonal, decagonal, etc.) constituted by similar edges, as the **current model of the WORLDALL**, called **ETHERONIC PLURIACTA**, of which shape is similar to the human braine!

2.1 Etheronic micro-acta=few-rays

In conformity with the Greek number-notations, the light-ray/beam elements can be considered as **zero-ray=miden-act** (the 0D light-point, light-bubble, intersection of rays), **one-ray=ena-act** (a 1D line), **two-rays=dio-acta** (determine a 2D plane), and **three-rays=tria-acta** (determine two opposed plane triangles or the perpendicular coordinates of the 3D Euclidean space), without to form any 3D **POLYHEDRON**.

2.2 Etheronic tessera-acta=four-rays

The formation of 3D **POLYHEDRA** starts with

the massive TETRAHEDRON and the wave-like HEXAHEDRON/CUBE, in the first case the Vertex-Face type with angles of $\sim 109.5^\circ$, while in the second one the perfect Vertex-Vertex type with angles of $\sim 70^\circ$, both together unifying into the ETHERONIC TESSERACT, theirs centres being on the bisecting plane of their common edge/**chord**, on the bisecting straight line under an angle of 45° compared to their common face. For detailings see the short syntheses (ss) nr. 48. and Remarks Part 1.

2.3 Etheronic pluri-acta=many-rays

Continuing to add new and new POLYHEDRA formed by more and more regular POLYGONS, the start being presented in the Figure nr. 21., results a cap-like shape, which will transform into a brain-like shape, correlated with the increasing of the successive regular and quasi-regular POLYHEDRA, constituted by regular POLYGONS, with the necessary completions, **around the suitable many-rays=pluri-acta, of which centres will be in the bisector plane, on the bisector line starting from the intersection of this plane with the common edge.**

3. Solution of the numbers' architecture

In conformity with the ancient Vitruvian definition, the ARCHITECTURE being the unity (in mathematical language quaternionic resultant) of the components **form, function and structure**, we can consider this **Etheronic pluri-acta=many-rays** the **Architecture of the Numbers**, the **Structure** being the **distribution of the prime and perfect numbers** between the real, complex (and hypercomplex) numbers, the **Function** being the **guiding of the Worldall**, respectively the **Form** being the **human brain-like shape**. This summarizing results from the mathematical-analytical descriptions – between others – of Euclid, Mersenne, Euler, Gauss, and especially **Riemann** (who extended the domain of the **real** numbers, treated by Euler, to the **complex** plane) of which **ZEROS** of the Zeta function refers to the **centers/ray-intersections** of the Polyhedra-series, the vertexes of the imperfect Polyhedra to the **prime numbers** (of which centers are situated within the critical stripe), the vertices of the perfect Polyhedra to the **perfect numbers** (of which centers are situated on the critical line situated on the near-exactly symmetry plane of the whole Polyhedra-series) (21,22).

It is considered that the fundamental mathematical tool is to connect the **chaotic distribution of prime numbers** with smooth, continuous mathematics. The **randomness is a fabula** for Donald Knuth! **The prime numbers are the puzzles of the uniform edges of the**

onion-like polyhedron-series! So, we can determine EXACTLY THEIR DISTRIBUTION.

The start of the **Etheronic pluri-acta=many-rays** system is constituted by a **line-segment** as **unity** or **measure/string of the whole system**, a **common edge** of **all basic polygons** of the **quasi-spherical shaped united polyhedron-series**, which compose this system, situated on the **basic plane** determined by this **basic line-segment unity** and its **bisector line**, respectively **bisector plane**, on which are situated all **spherical centers** as points of the **generated plane-series of the polyhedra pivoted of the basic line-segment unity/chord/string**. This is the frame within which is functioning the **WHOLE NUMERICAL SYSTEM**, inclusive the Riemann questions too, on the complex numerical plane, and Euler's Basel Problem on the real numerical plane (21,22). I have no informations about the elaboration of the prime/perfect numbers' systems beyond the complex numerical plane, nore about the elaboration of the 32nionic and 64nionic numerical systems.

The **Polyhedron-series** starts with the **5 Platonic solids** – convex uniform regular polyhedra – proved by Euclid, **13 Archimedean solids** – convex uniform semi-regular polyhedra – with their **Catalan solids duals**, continued with the **92 Johnson solids** – non-uniform regular faced – and finally with the newly discovered **countless Talata-solids** – called elementary near-miss Johnson solids – analogously to elementary Johnson solids (21,22,23). The only polygons as faces of a regular faced polygon, are triangles, squares, pentagons, hexagons, octagons and decagons (21). The **basic plane** of the numerical plane-system refers to the **real/whole/ integer** (elaborated by Euclid, primes traited by Euler) numbers, while the **generated plane-series** refer to the **complex** (elaborated by Gauss, primes traited by Riemann), **quaternionic** (elaborated by Hamilton), **octonionic** (elaborated by Cayley), **sedenionic** (elaborated by Mironovs, father and son), **32nionic** and **64nionic** numerical systems, without to search their prime numbers, nor their perfect numbers (21,22,23).

The **number theory** starts with determining a **UNITY**, for which the most adequate is a **line-segment limited by 2 points**. This line-segment UNITY determines a World-axis, around which pivote the 127 numerical planes, in conformity with the Boolean binary logical system, namely: $2^0=1$ REAL, without complex component, $2^1=2$ COMPLEX, with 1 real + 1 complex component, $2^2=4$ QUATERNIONIC, with 1 real + 3 complex components, $2^3=8$ OCTONIONIC, with 1 real + 7 complex components, $2^4=16$ SEDENIONIC, with 1 real + 15 complex components, $2^5=32$ 32NIONIC,

with 1 real + 31 complex components, $2^6=64$ 64NIONIC, with 1 real + 63 complex components. On each numerical plane, the line-segment UNITY is successively surrounded by similar segments as edges of the basic regular polygons series, over which are constructed the regular polyhedra series, resulting a Matriushka-dolly or onion-like global structure/**whole numerical system**, functioning like a genuine MATRIX inside a human brain-like structure, with its symmetry plane crossing the line-segment UNITY at its 1/2 point (21,22,23).

4. Conclusions

After the presentation of the CHEMICAL and PHYSICAL approaches of the **WORLDALL**, the MATHEMATICAL approach is the most difficult, because it suffers from the most lagging behind. As long as while the CHEMISTRY advanced between the Karlsruhe Congress in 1860 to 2013 at least 21%, calculating the proportion of the number of the 118 elements recognized by the International Union of Pure and Applied Chemistry (IUPAC) in comparison with the 560 elements of the Whole Periodic System published in 2015/2016, the MATHEMATICS stagnates at least from Riemann's year 1859 till today 2026, or at very least from the Hilbert's year 1900 with its 23 unsolved problems, and the PHYSICS starting in the same time, but diverting it from its normal course, the transition from the „atomic” to the ETHERONIC thinking stagnating in spite of the discovery of the first („subatomic elements”) elementary particles in 1964 and of the Etheron in 1982. About the Photon as light-particle it's better to forget!

Referring to the connections between the Worldall and its presentations, it's interesting to mention that the Great Pyramid of Giza – beyond its 2.3 million stone(?) blocks! – contains a „descendent passage” too, with inclination of 27° , which represents the „critical line” of the Worldall (called Universe too), marking the transition from the Etheric to the Physical form (24).

5. Annexes

5.1 Abstract of the First Part

Extending the actually recognized Periodic Table of the 118 chemical elements, including downwards the Gluon and Quark as pre-elements and the Etheron as start-element, respectively upwards the new elements from 119 to 558, with intercalation of the driving Bion and 13 Bionic elements, results the **Whole Periodic System**, according to the same pattern on the 7 octavic cosmic evolutionary levels (Tachionic, Noethic, Etheric, Physical, Astral, Universal, Multiversal)

presented in form of long/chessboard-like, stepped/pyramidal and spiral/discoidal tables with quaternion-like joining interpretation possibility, based on the proposed inverse quaternionic mathematical model. The macro-structure of the system is guided by the Octave-law, according to 1-2-4-8-16-criteria/axes, the Octaves being the quantitative extension units, while the Bions the qualitative regulators, but the micro-structure of the elements is determined by the alternating function-change of the secondary complex vectors on the resulted 3 intersection planes and 6 semi-planes, which explain the anomalies within the so strictly organized macro-structure. The resulted Whole Periodic System contains 560 elements in 76 periods organized in 7 steps, successively with $2^2=4$, $4^2=16$, $6^2=36$, $8^2=64$, $10^2=100$, $12^2=144$, $14^2=196$ elements, the **ETHERON** (Physical **ELECTRON**) being the 8th start/transitional step. This chemical structuring is repeated on the all 7 octavic/material nucleonic structured levels/Archimedean semiregular solids, in vortical order being intercalated between the 5 pentatonic/light bionic structured phases, named Icosa, Dodeca, Octa, Hexa, Tetra in conformity with their constitutive light-particle shapes/Platonic solids, respectively Ring-Horn-Spindle toroidal phases after their own form inside the Toroidal-Spherical cosmic evolutionary process. The turning-point of the helical-toroidal to the spherical evolutionary stages is the APEX/ZERO-POINT of the Horn-toroidal phase, around which evolves the conic-toroidal frame of the LIGHT-MATTER TRANSITION, namely of the ELBU (Elementary Light-Bubble Unity) – the LIGHT-particle – which transforms into ETHERON – the MATTER-particle – through the TRANSITIONAL PHOTONIC Dirac-spinor – which really the „four-in-hand” GRAVITATION-particle is – through TURNING INSIDE OUT of the smaller/inner ELBU-Tetrahedron into its bigger/outer inverse QUASI-DUAL ETHERON-Tetrahedron around the APEX, through the 4 vertexes of the regular ELBU-Tetrahedron, which are the massive centers of the suitable 4 PHOTON-Tetrahedrons – component adjacent flat irregular tetrahedral triangular pyramids – with central meeting and bordering outer bases, unified into the regular ETHERON-TETRAHEDRON, this being the basic geometrical form! The quantization trials of the 19th century led to the modern QUANTUM-THEORY started with Max Planck in 1900 – based on the particle-wave duality, of which particle nature was elaborated by Isaac Newton (1687) and the wave nature by Thomas Young (1801) – the ENERGY-quantum being the quaternionic resultant of the LIGHT-GRAVITATION-MATTER-quanta ELBU-PHOTON-ETHERON! The **ETHERONIC STRUCTURE** is manifested in form of Nucleonic

(spherical core & toroidal coating) and Bionic (toroidal core & spherical coating) structural duality, as direct consequence of the sphere-torus duality, but with TESSERACT/Hypercube (4D equivalent of the 3D cube) JOINING between the core and coating, being – contrary to the false Atomic structure – the base of the „chemical bonds”, through their Wedge-Tetrahedral DISPHENOID Vertex-figures inside the 8 vertical cubes of the 4D TESSERACT. The GEOMETRY don't lie! These conclusions are the geometrical aspect of the DIRAC-EQUATION (1928). Because the LIGHT-quantum ELBU has $(2.139 \times 10^{-151} \text{ kg})$ MASS too, the Matter-Energy-Information N. Wiener-triad (1948) transforms into Mass-Energy-Information M. M. Vopson-triad (2019). The LIGHT-MATTER transition starts from the ELBU (LeSage, 1682) to the ETHERON (Ioan IOVITZU Popescu, 1982) through the DIRAC-spinorial/PHOTONIC „fourth” of the GRAVITATION (1928).

These connections are expressed in multidimensional context through the **ETHERONIC TESSERACT**, in geometrical form as inseparable co-edgeal unity of the Rotating Tetrahedral Etheron inside the 3D Tesseract/4 rays, constituting the higher dimensional gravitational frame of the **COSMIC RESONANCE**, in form of 4D Quaternionic Hexahedral, 5D Quinternionic Octahedral and 6D Sexternionic Dodecahedral ENERGY-FORMS with Harmonic Rhythms of 3+1, 4+1 and 5+1 inside the ETHERONIC ENERGY SPIRAL SYSTEM of the Whole Periodic System, and with Nucleonic, Bionic, respectively Neuronic structuring forms of the proposed Etheronic Structure instead of the actually recognized Atomic one. In this context the Tesseract-circumscribed spheres represent gravitational layers with their central start-point, the Tetrahedron-circumscribed spheres the 4 (Matter-Light-Bion-Neuron) massive layers, but the spheres with centers in the vertices of both Platonic solids and with common edgeal radius are light-bubbles of the outer gravific/dark, respectively of the inner massive/bright light. Their intersections determine the inner quasi-octahedral BIONIC and NEURONIC light-borders, with their circumscribed gravitational spheres. Perpendicular to the common edge/chord of the 3D Tesseract and of the Etheronic Tetrahedron, the axis formed by their both centers functions as hyperspinorial axis of the **GENERALIZED ETHERONIC TESSERACT**. In this context, starting from the Gravific 3D follows a very sharp energetic differentiation between the simple-spiraled and multiple-spiraled spinorial evolutionary systems, namely factorial increasing versus simple summing, like within the 3D-4D-5D-6D spiral-series of the

Whole Periodic System!!!! This new energetic conception is a corollary of the genuine structure of the elements. **By the other side this multispiraled system is based on the prime numbers as elementary particles, which generate harmonic waves inside the „prime wave field”, governing in this manner the whole WORLDALL.**

Finally the ETHERONIC TESSERACT as a CORE-FIELD SYSTEM is embedded into the all-embracing elementary LIGHT-BUBBLES SYSTEM.

5.2 Referencies [n]

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5.3 Tables and Figures (n)

- *Chemical Approach:*

- 1) Long/Chessboard-like table (3 pages)
- 2) Stepped/Pyramidal table (1/2 page)
- 3) Spiral/Discoidal table (1/2 page)

- *Physical approach:*

- 11) 3D Tesseract with Tetrahedral Disphenoid
- 12) 3-Dimensional Etheronic Tesseract
- 13) 0-6 Dimensional Tesseract Series
- 14) Detailings of Etheronic Tesseract Elements

- *Mathematical approach:*

- 21) Numerical Plane Start of the United Polyhedra Series
- 22) Numerical Systems of the Worldall
- 23) Worldall Structure – Human Brain Similarity
- 24) Pyramidal Correlations with the Worldall Evolution.

To the memory of Wolfgang Bolyai Farkas (1775-1856).

SKETCH OF THE COSMIC ARCHITECTURE A KOZMIKUS ÉPÍTÉSZET VÁZLATA														LONG TABLE HOSSZÚ TÁBLÁZAT						1
GROUPS PERIODS		I.A.	I.B.	II.A.	II.B.	III.B.	III.A.	IV.B.	IV.A.	V.B.	V.A.	VI.B.	VI.A.	VII.B.	VII.A.	VIII.B.	VIII.B.	VIII.B.	VIII.A.	IX.
STEPS NO. OF ELEMENTS	PERIODS	ALKALINE METALS	NON-FERROUS METALS	ALKALINE EARTH METALS	NON-FERROUS METALS	LIGHT METALS	TRANSITION METALS	LIGHT METALS	TRANSITION METALS	LIGHT METALS	TRANSITION METALS	LIGHT METALS	CHALCOGENS	LIGHT METALS	HALOGENS	HEAVY METALS			NOBLE GASES	BIONIC
0. STEP 4°=1 ELEMENT ETHERON (ETHER-AXIS)																				
1. STEP 4°=4 ELEMENTS	0.	G		*		*													Q	B0
	1.	1 H	⊙	*	⊙	⊙	*	⊙	*	⊙	*	⊙	*	⊙	*			⊙	2 He	B1
2. STEP 4°=16 ELEMENTS	2.	3 Li		4 Be		⊙←	5 B	⊙←	6 C	⊙←	7 N	⊙←	8 O	⊙←	9 F			⊙←	10 Ne	B2
	3.	11 Na	→⊙	12 Mg	→⊙		13 Al		14 Si		15 P		16 S		17 Cl				18 Ar	B3
3. STEP 8°=36=2X16+4 ELEMENTS	4.	19 K		20 Ca		21 Sc		22 Ti		23 V		24 Cr		25 Mn		26 Fe	27 Co	28 Ni		
	5.		29 Cu		30 Zn		31 Ga		32 Ge		33 As		34 Se		35 Br				36 Kr	B4
4. STEP 8°=4³=64=4X16+4 ELEMENTS	6.	37 Rb		38 Sr		39 Y		40 Zr		41 Nb		42 Mo		43 Tc		44 Ru	45 Rh	46 Pd		
	7.		47 Ag		48 Cd		49 In		50 Sn		51 Sb		52 Te		53 I				54 Xe	B5
5. STEP 10²=100=6X16+4 ELEMENTS	8.	55 Cs		56 Ba		57 La		58 Ce		59 Pr		60 Nd		61 Pm		*	*	*		
	9.		62 Sm		63 Eu		64 Gd		65 Tb		66 Dy		67 Ho		68 Er				*	
	10.	69 Tm		70 Yb		71 Lu		72 Hf		73 Ta		74 W		75 Re		76 Os	77 Ir	78 Pt		
	11.		79 Au		80 Hg		81 Tl		82 Pb		83 Bi		84 Po		85 At				86 Rn	B6
	12.	87 Fr		88 Ra		89 Ac		90 Th		91 Pa		92 U		93 Np		*	*	*		
	13.		94 Pu		95 Am		96 Cm		97 Bk		98 Cf		99 Es		100 Fm				*	
	14.	101 Md		102 No		103 Lr		104 Rf		105 Db		106 Sg		107 Bh		108 Hs	109 Nt	110 Ds		
	15.		111 Rg		112 Cn		113 Uut		114 Fl		115 Uup		116 Lv		117 Uus				118 Og	B7
	16.	119 Uua		120 Ubn		121 Ubu		122 Ubb		123 Ubt		124 Ubq		125 Ubp		*	*	*		
	17.		126		127		128		129		130		131		132				*	
	18.	133		134		135		136		137		138		139		140	141	142		
	19.		143		144		145		146		147		148		149				150	
	20.	151		152		153		154		155		156		157		158	159	160		
	21.		161		162		163		164		165		166		167				168	B8
	22.	169		170		171		172		173		174		175		*	*	*		

GROUPS		I.A.	I.B.	II.A.	II.B.	III.B.	III.A.	IV.B.	IV.A.	V.B.	V.A.	VI.B.	VI.A.	VII.B.	VII.A.	VIII.B.	VIII.B.	VIII.B.	VIII.A.	IX.
PERIODS																				
5. STEP	10 ² = 100 = 6X16+4 ELEMENTS	23.		176		177		178		179		180		181		182				*
		24.	183		184		185		186		187		188		189		190	191	192	
		25.		193		194		195		196		197		198		199			200	
		26.	201		202		203		204		205		206		207		208	209	210	
		27.		211		212		213		214		215		216		217			218	B9
6. STEP	12 ² = 144 = 9X16 ELEMENTS	28.	219		220		221		222		223		224		225		*	*	*	
		29.		226		227		228		229		230		231		232				*
		30.	233		234		235		236		237		238		239		240	241	242	
		31.		243		244		245		246		247		248		249			250	
		32.	251		252		253		254		255		256		257		*	*	*	
		33.		258		259		260		261		262		263		264				*
		34.	*		*		*		*		*		*		*		*	*	*	
		35.		265		266		267		268		269		270		271			272	
		36.	273		274		275		276		277		278		279		280	281	282	
		37.		283		284		285		286		287		288		289			290	B10
		38.	291		292		293		294		295		296		297		*	*	*	
		39.		298		299		300		301		302		303		304				*
		40.	305		306		307		308		309		310		311		312	313	314	
		41.		315		316		317		318		319		320		321			322	
		42.	323		324		325		326		327		328		329		*	*	*	
		43.		330		331		332		333		334		335		336				*
		44.	*		*		*		*		*		*		*		*	*	*	
		45.		337		338		339		340		341		342		343			344	
		46.	345		346		347		348		349		350		351		352	353	354	
		47.		355		356		357		358		359		360		361			362	B11
		48.	363		364		365		366		367		368		369		*	*	*	
		49.		370		371		372		373		374		375		376				*
		50.	377		378		379		380		381		382		383		*	*	*	

GROUPS		I.A.	I.B.	II.A.	II.B.	III.B.	III.A.	IV.B.	IV.A.	V.B.	V.A.	VI.B.	VI.A.	VII.B.	VII.A.	VIII.B.	VIII.B.	VIII.B.	VIII.A.	IX.
PERIODS																				
7. STEP $14^2 = 196 = 12 \times 16 + 4$ ELEMENTS	51.		384		385		386		387		388		389		390				391	
	52.	392		393		394		395		396		397		398		*	*	*		
	53.		399		400		401		402		403		404		405				*	
	54.	*		*		*		*		*		*		*		*	*	*		
	55.		406		407		408		409		410		411		412				413	
	56.	414		415		416		417		418		419		420		421	422	423		
	57.		424		425		426		427		428		429		430				431	
	58.	432		433		434		435		436		437		438		*	*	*		
	59.		439		440		441		442		443		444		445				*	
	60.	446		447		448		449		450		451		452		*	*	*		
	61.		453		454		455		456		457		458		459				460	B12
	62.	461		462		463		464		465		466		467		*	*	*		
	63.		468		469		470		471		472		473		474				*	
	64.	475		476		477		478		479		480		481		*	*	*		
	65.		482		483		484		485		486		487		488				489	
	66.	490		491		492		493		494		495		496		*	*	*		
	67.		497		498		499		500		501		502		503				*	
	68.	*		*		*		*		*		*		*		*	*	*		
	69.		504		505		506		507		508		509		510				511	
	70.	512		513		514		515		516		517		518		519	520	521		
	71.		522		523		524		525		526		527		528				529	
	72.	530		531		532		533		534		535		536		*	*	*		
	73.		537		538		539		540		541		542		543				*	
	74.	544		545		546		547		548		549		550		*	*	*		
	75.		551		552		553		554		555		556		557				558	B13

JELMAGYARÁZAT - LEGEND

IX.

BIONIC ELEMENTS

*

"ÜRESJÁRATOK" - NEUTRAL GEARS

○

"TÜKRÖZÉSEK" - MIRRORINGS

⊙

REJTETT ELEMENK - HIDDEN ELEMENTS

■

MÁGIKUS ELEMENK - MAGICAL ELEMENTS

⊕

DINERGIA SPIRÁL ELEMENK - ELEMENTS OF DINERGY-SPIRAL

⊖

RITKA FÖLDFÉMEK - RARE TELLURIC METALS

□

TERMÉSZETES ÁLLAPOTBAN NEM ELŐFORDULÓ ELEMENK
ARTIFICIAL ELEMENTS

Table (1). Long/Chessboard-like table

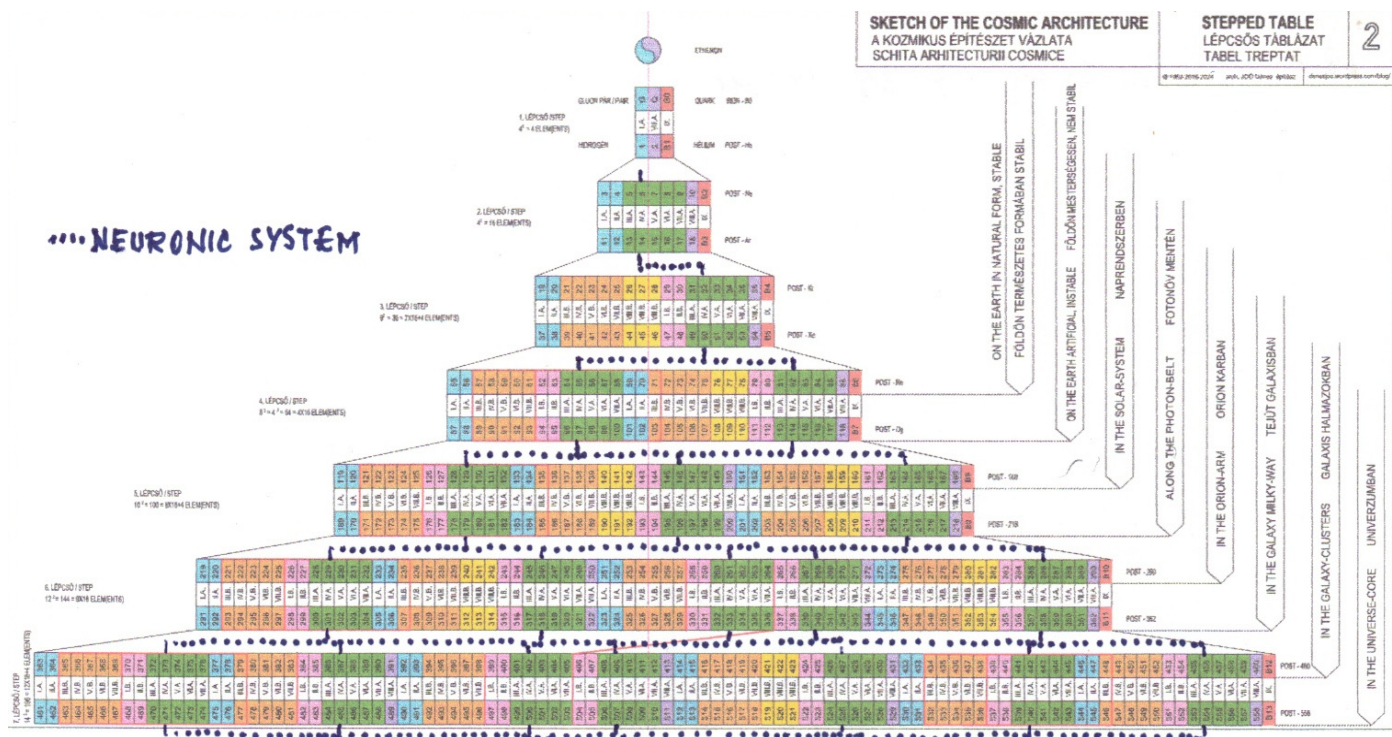


Table (2). Stepped/Pyramidal table

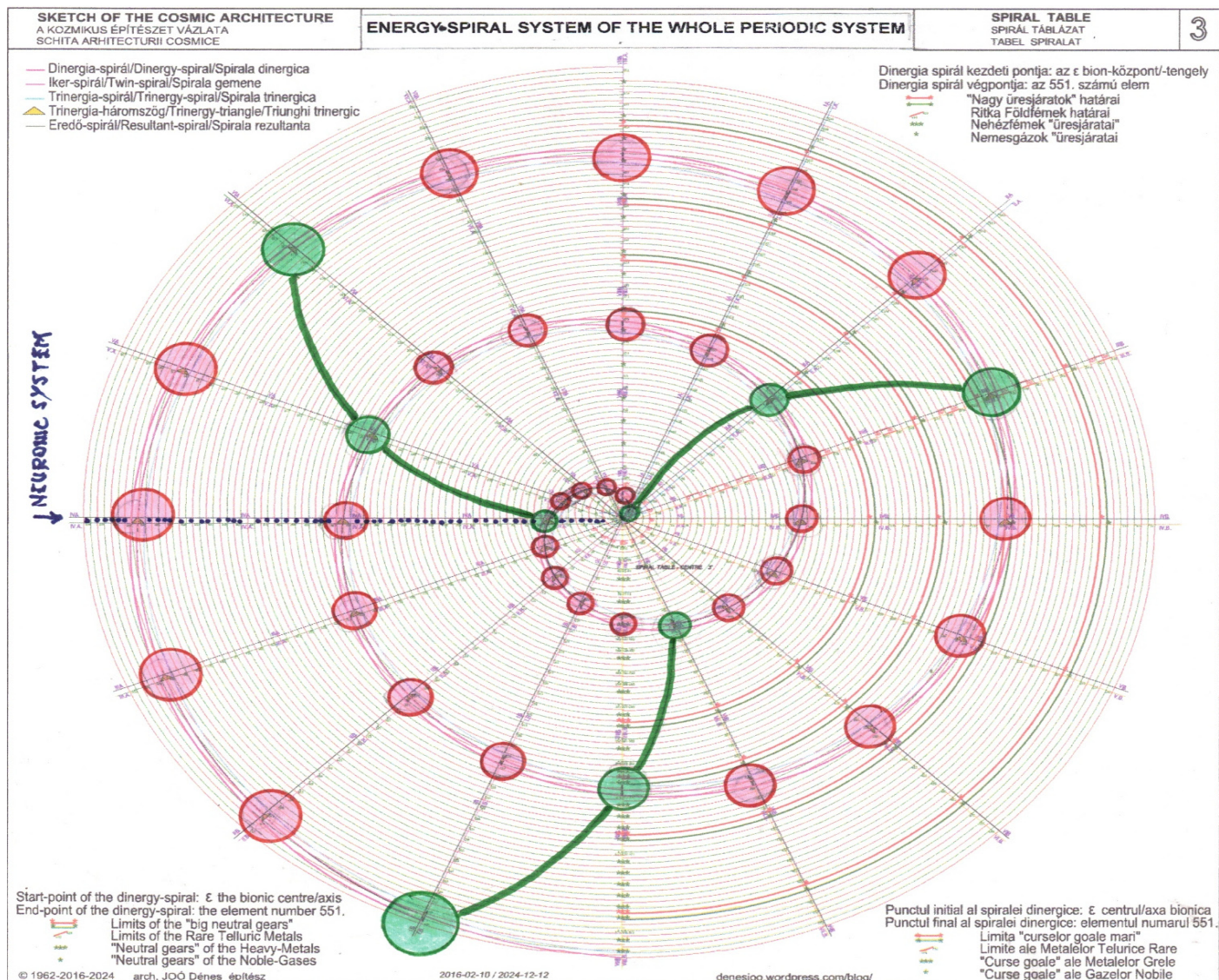


Table (3). Spiral/Discoidal table

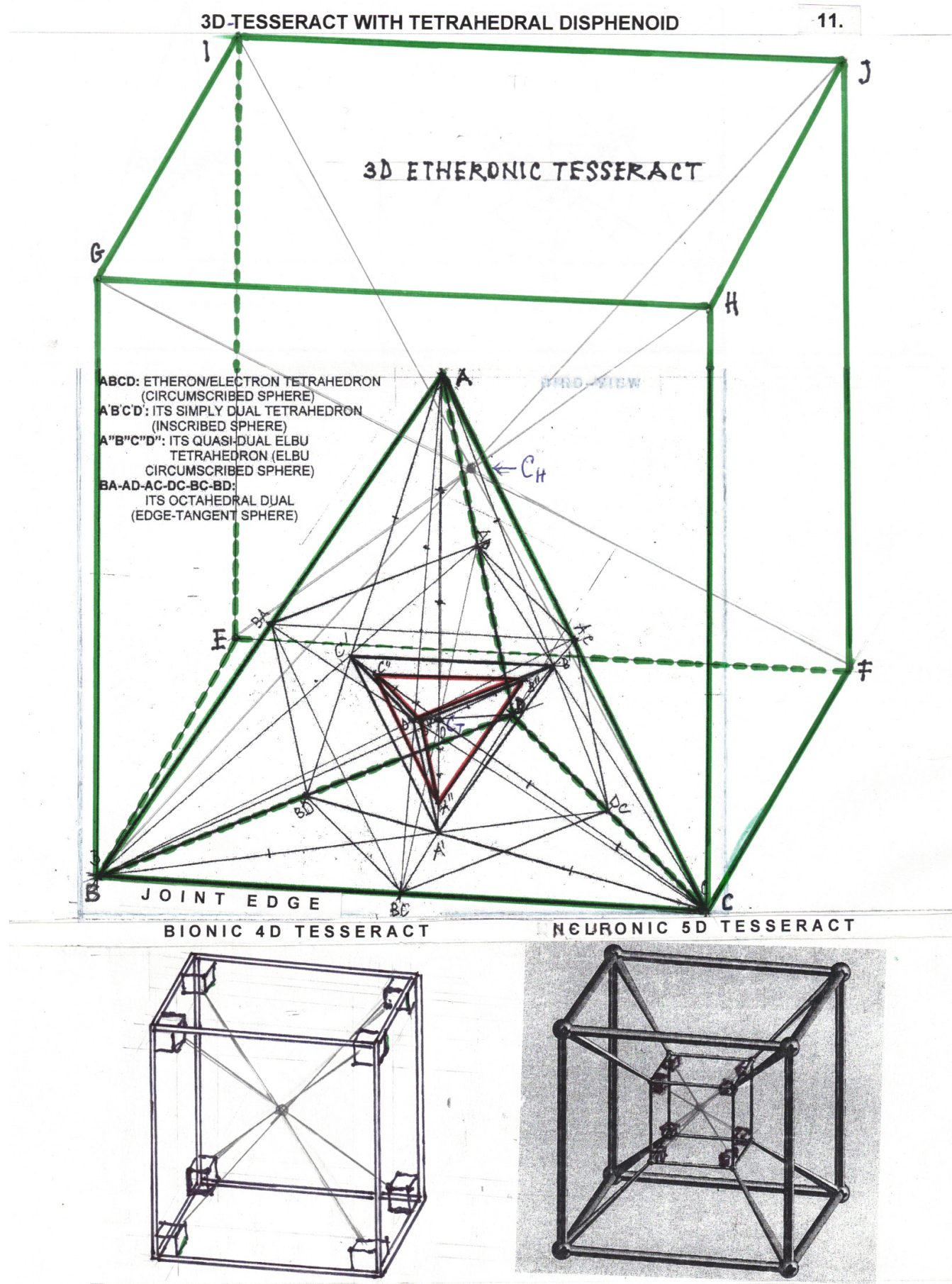


Figure (11). 3D Tesseract with Tetrahedral Disphenoid

3-DIMENSIONAL ETHERONIC TESSERACT

12.

THE ETHERONIC TESSERACT – AS CORE-FIELD UNIT – IS THE ETHERONIC TETRAHEDRON INSIDE THE HYPERCUBE/TESSERACT, UNITED THROUGH THEIR COMMON EDGE, AND SPINNING TOGETHER AROUND ITS PERPENDICULAR COMMON SPINORIAL AXIS. INSIDE THE ETHERONIC TETRAHEDRON TURN INSIDE OUT AND OUTSIDE IN SUCCESSIVELY THE SMALLER ELBU (ELEMENTARY LIGHT-BUBBLE UNIT), BION AND NEURON QUASI-DUAL TETRAHEDRA, IN CORRELATION WITH THE SUITABLE HIGHER GRAVIFIC DIMENSIONAL TESSERACTS, FROM THE 3D TO THE 4D-5D-6D TESSERACTS, AS ONION-LIKE LAYERS OF THE GENERALIZED GRAVITATIONAL FIELD WITHIN THEIR DARK- AND BRIGHT-LIGHT BUBBLE SYSTEM.

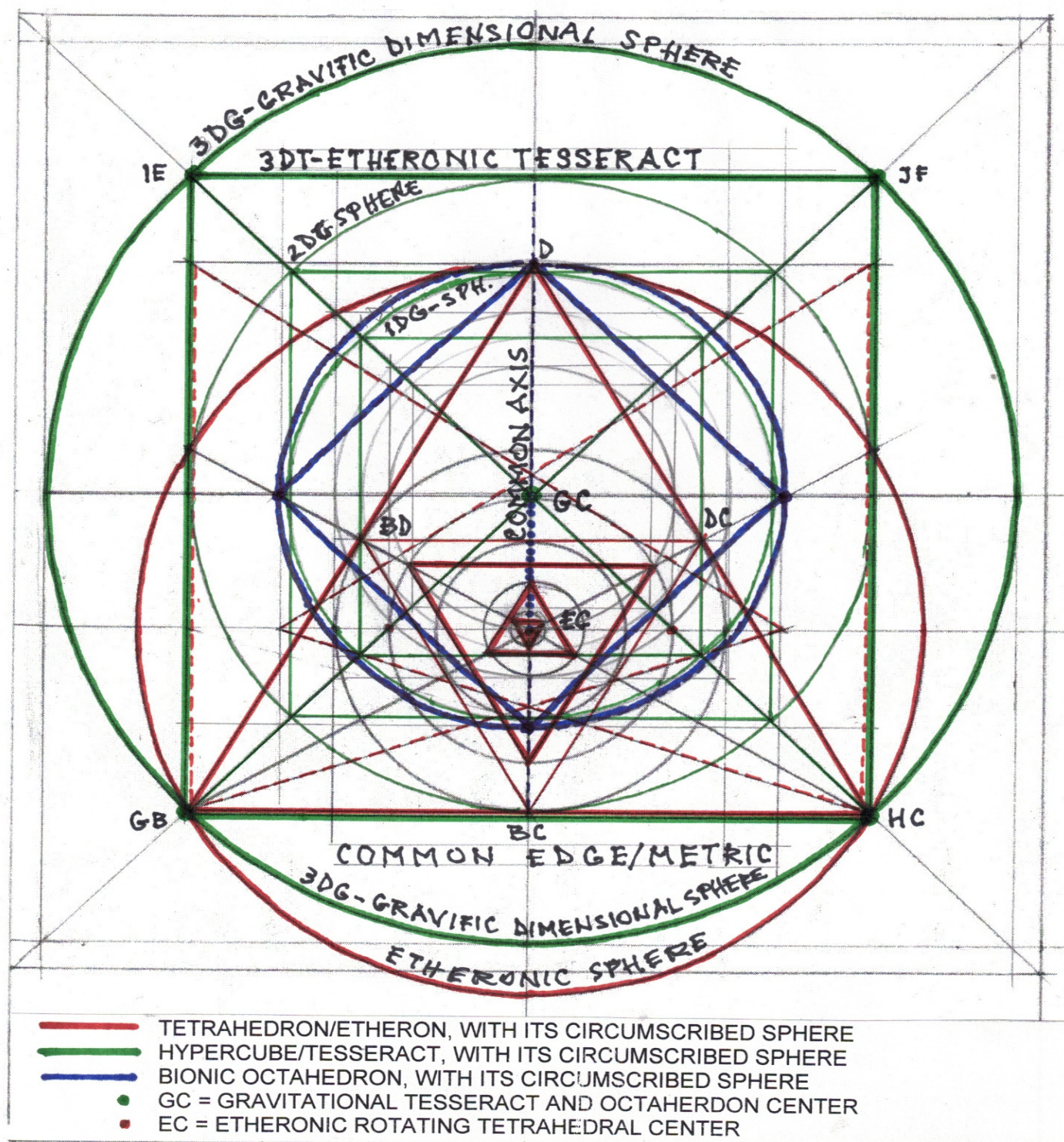


Figure (12). 3-Dimensional Etheronic Tesseract

0-6 DIMENSIONAL ETHERONIC TESSERACT SERIES

13.

THE ENERGY FORMS OF THE ETHERONIC TESSERACT SYSTEM – BEYOND THE WELL-KNOWN 3D PHYSICAL REAL TETRAHEDRAL ONE – CORRESPOND TO THE COSMIC EVOLUTIONARY LEVELS, NAMELY 4D QUATERNIONIC 3+1 HEXAHEDRAL OF THE 4D-T SENSITIVE, 5D QUINTERNIONIC 4+1 OCTAHEDRAL OF THE 5D-T CONSCIOUS, AND 6D SEXTERNIONIC 5+1 DODECAHEDRAL OF THE 6D-T DIVINE COSMIC EVOLUTIONARY LEVELS, IN CONFORMITY WITH THE LESS-KNOWN COSMIC RHYTHMS GENERATED BY THE PRIME NUMBERS SYSTEM, EXPRESSED IN FORM OF ENERGY SPIRAL SYSTEM OF THE WHOLE PERIODIC SYSTEM OF THE CHEMICAL ELEMENTS.

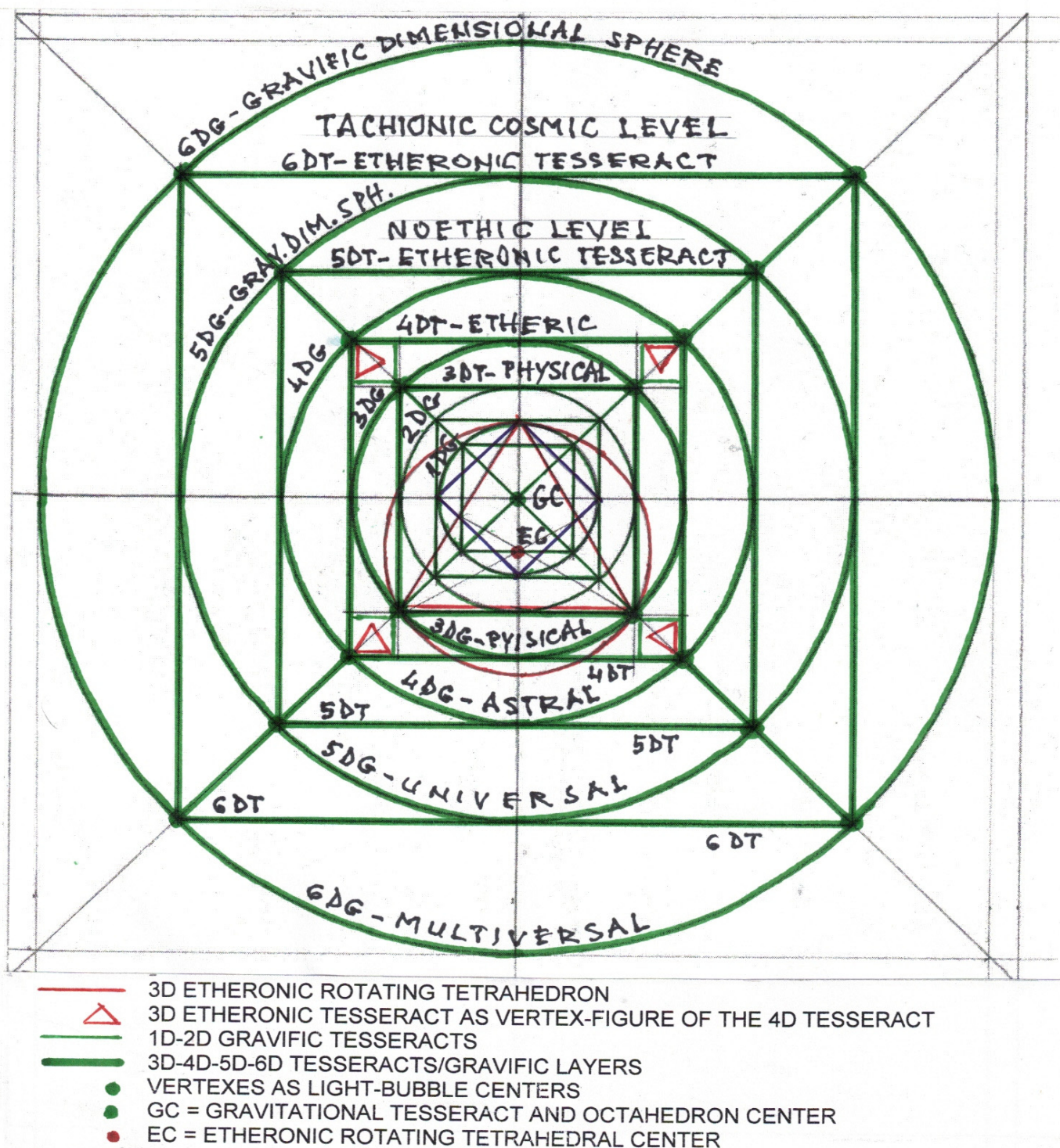
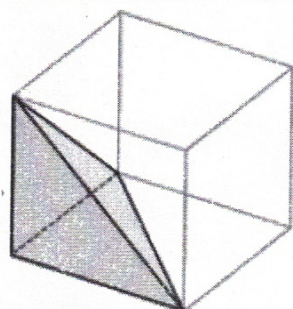


Figure (13). 0-6 Dimensional Tesseract Series

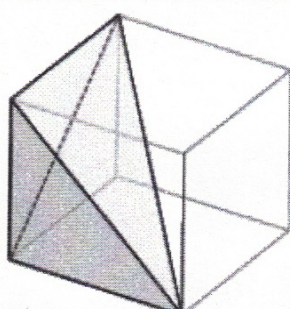
DETAILINGS OF ETHERONIC TESSERACT ELEMENTS

14.

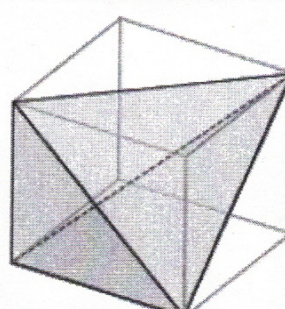
FOUR POSSIBLE TYPES OF TETRAHEDRA IN CUBE



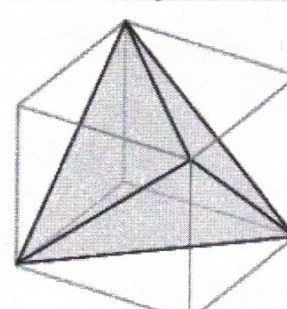
corner



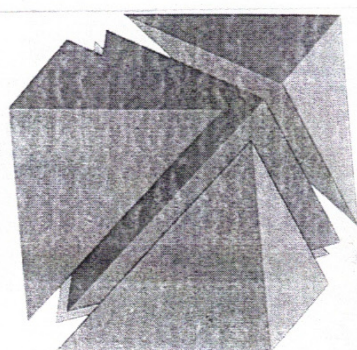
staircase



slanted

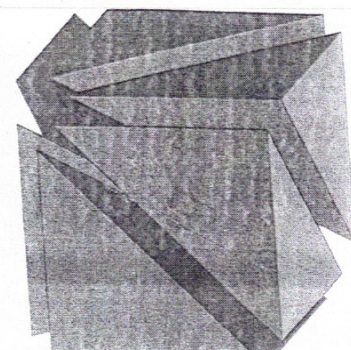


core



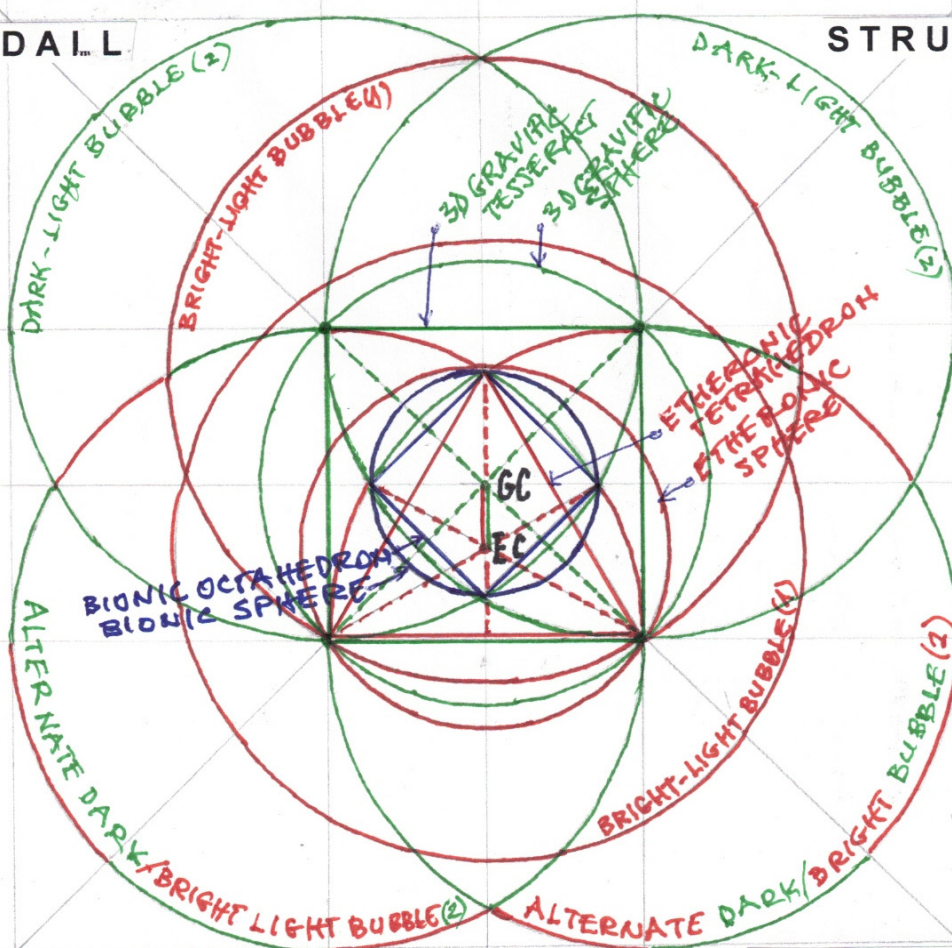
5D – ETHERONIC TESSERACT
4 CORNER IRREGULAR
1 CORE REGULAR
TETRAHEDRA IN CUBE

6D – ETHERONIC TESSERACT
6 STAIRCASE IRREGULAR
EQUALE SIZED/VOLUMETRIC
TETRAHEDRA IN CUBE



WORLDAIL

STRUCTURE



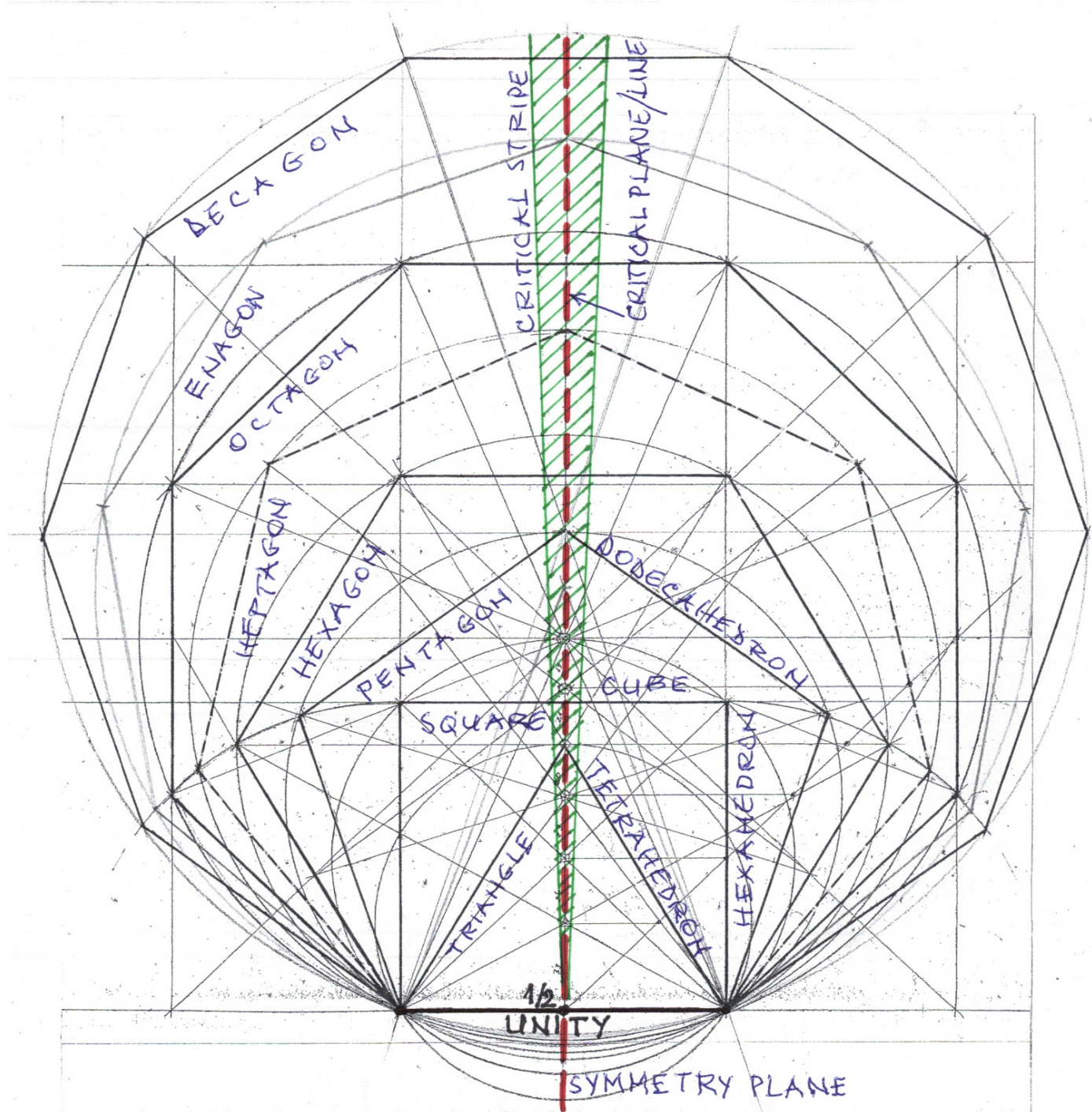
GC = GRAVIFIC CENTER

EC = ETHERONIC CENTER

Figure (14). Detailings of Etheronic Tesseract Elements

NUMERICAL PLANE START OF THE UNITED POLYHEDRA SERIES

21.



THE **NUMBER THEORY** STARTS WITH DETERMINING OF A **UNITY**, FOR WHICH THE MOST ADEQUATE IS A LINE-SEGMENT LIMITED BY TWO POINTS. THIS LINE-SEGMENT **UNITY** DETERMINS A WORLD-AXIS, AROUND WHICH ARE PIVOTED THE 127 NUMERICAL PLANES, 7 REAL + 120 IMAGINARY, IN CONFORMITY WITH THE BOOLEAN BINARY LOGICAL SYSTEM: $2^0=1$ **REAL**, WITHOUT COMPLEX COMPONENT, $2^1=2$ **COMPLEX**, WITH 1 REAL+1 IMAGINARY, $2^2=4$ **QUATERNIONIC**, WITH 1 REAL+3 IMAGINARY, $2^3=8$ **OCTONIONIC**, WITH 1 REAL+7 IMAGINARY, $2^4=16$ **SEDENIONIC**, WITH 1 REAL+15 IMAGINARY, $2^5=32$ **32NIONIC**, WITH 1 REAL+31 IMAGINARY, $2^6=64$ **64NIONIC**, WITH 1 REAL+63 IMAGINARY. ON EACH NUMERICAL PLANE, THE LINE-SEGMENT **UNITY** IS SUCCESSIVELY SURROUNDED BY SIMILAR SEGMENTS AS EDGES OF THE BASIC REGULAR POLYGONS, OVER WHICH ARE CONSTRUCTED THE REGULAR POLYHEDRA, ONION- OR MATRIUSHKA-LIKE SURROUNDING THE LINE-SEGMENT **UNITY**. WITHIN THIS HUMAN BRAIN-LIKE GLOBAL STRUCTURE CALLED **WORLDALL** IS REALIZED THE ETERNAL COSMIC RESONANCE, NAMELY THROUGH THE **UNITY NUMBER**.

Figure (21). Numerical Plane Start of the United Polyhedra Series

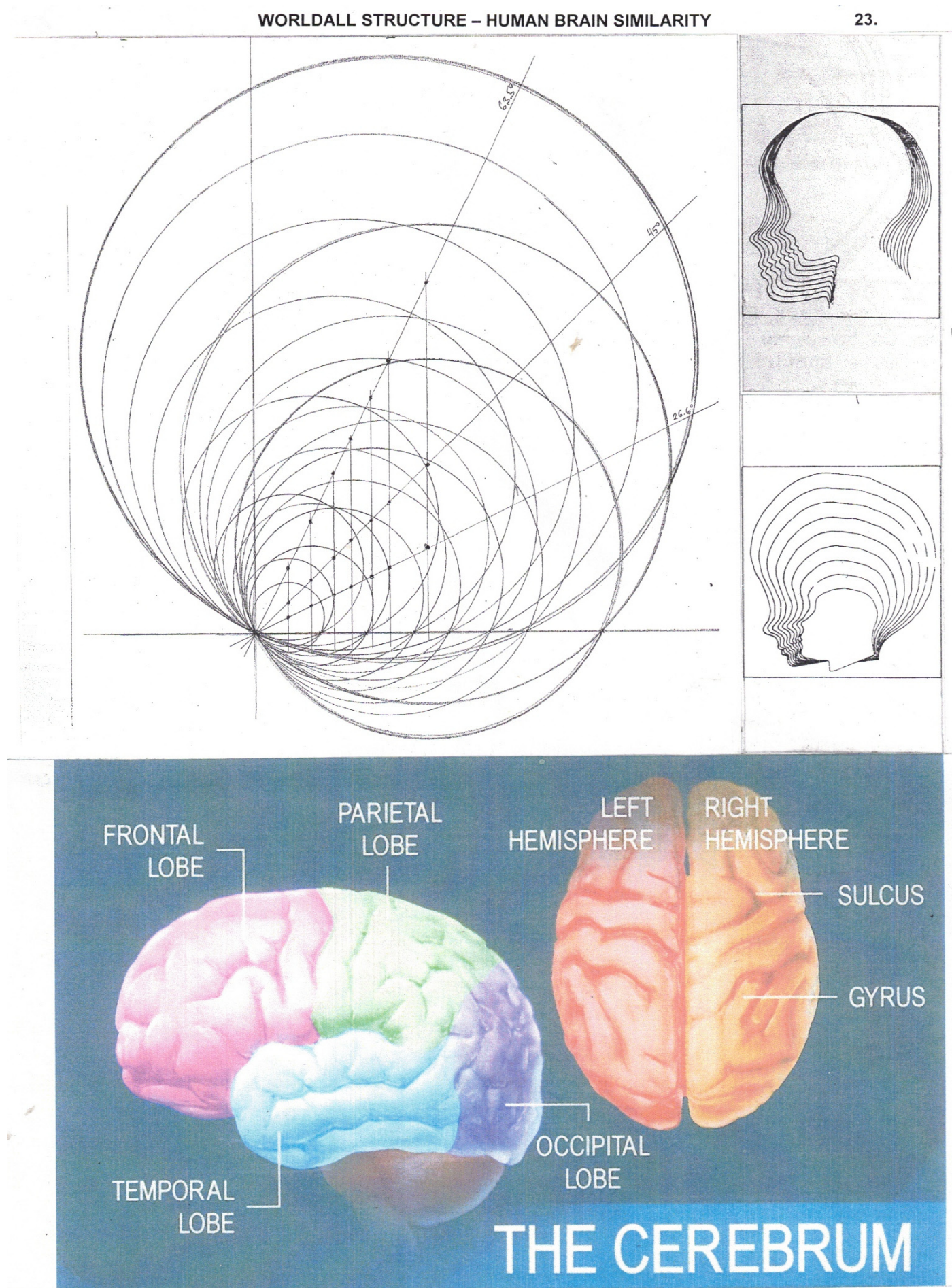


Figure (23). *Worldall Strucrure – Human Brain Similarity*

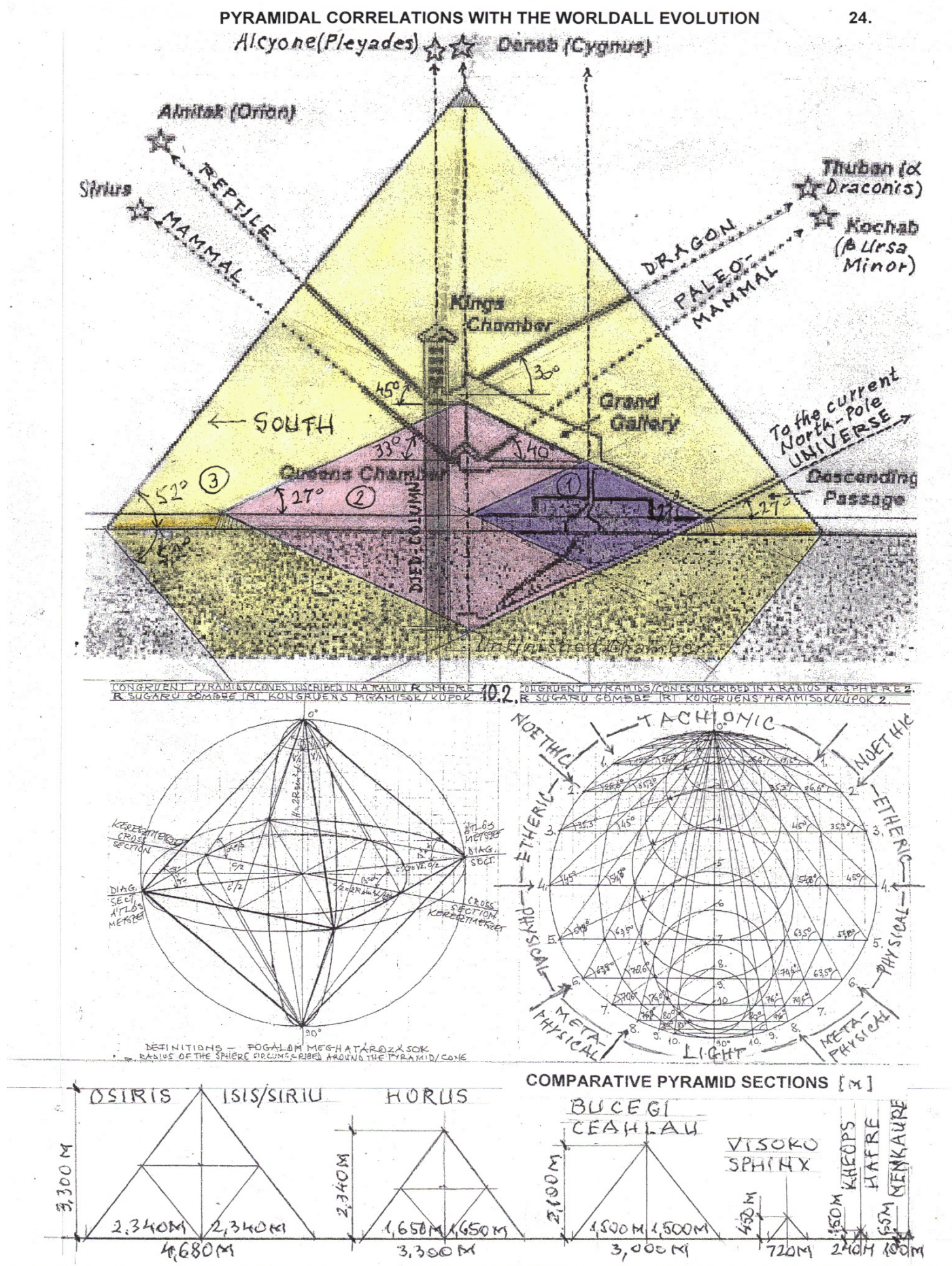


Figure (24). Pyramidal Correlations with the Worldall Evolution