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PHARAONIC INSTITUTE OF TECHNOLOGY
OFFICIAL HOME OF THE NEW SYLLABUS

– KEMETIC CURRICULUM SERIES –

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**SYLLABUS OF
SCIENCE TECHNOLOGY & MATHEMATICS**

SSTEM
CURRICULUM

by A. A. Crawley,

Founder Professor
Director of the Dept. of Information Systems and
Intelligence Service

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**ALL PRAISE BE TO GOD
TO WHOM ALL PRAISE IS DUE**

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**NEW SYLLABUS ADMINISTRATION
WASHINGTON, DC
2017**

CORE CONTENT CURRICULA

I. GAGUT GGERP
GOD Almighty's Grand Unified Theorem and Global Educational Revolution Program.
Mathematical System, discovered by OFAPPIT INSTITUTE.

II. EFNMR
Earth Field Nuclear Magnetic Resonance.
Nature System, researched by PHARAONIC INSTITUTE.

III. RREMF
Record of Ra's Electro Magnetic Field.
Translation of Mdu-Ntr *Coming Forth by Day* by PHARAONIC INSTITUTE.

IV. MMEMR
Maat Mechanics of Electro Magnetism – Redacted
Nature System, redacted from THOTH MAAT LAW STATUTORY CODE by PHARAONIC INSTITUTE.

V. APPENDIX OF NATURAL PHILOSOPHY

ARGUMENT

The above acronyms are the proper phonetic names for a set of Unified Field Theorems describing Absolute Universal Intelligence (i.e., GOD, or "Generate Operate Discharge") based in African Medu-Neter Notation. What follows is an explanation of each Theorem, which, individually and collectively, prove the UMAA-T Ancient African Universe as taught in the ancient Mystery Schools.

GRADING SCHEDULE

This Syllabus is destined to administer to any willing conscious body the Whole, or, All-of, the Knowledge required to obtain the _____ (Nth) Degree of Wisdom and Understanding known as A Defendant, A Moor Beloved, A Pilgrim ('Walter Kogard"), A Scholar, Iself Master, A Professor of Self Law, A Professor of Kaba Law, An Initiate into the Universal Order … , etcetera.

To obtain these degrees from the **Syllabus Bar Association** (Moorish National Syllabus Administration, N.S.S.P.), please contact **director@newsyllabus.org**. To receive counsel and further instruction in these curricula (Iself Law, Maat Law, Kaba Law), contact the same.

METHODOLOGY
(N.S.C. MAAT Title 4 § 2)

1 **Life** is a **Course** in which one studies the Knowledge which they will apply toward their pursued degree of Wisdom.

2 The pursuit of Supreme **Wisdom** is comprised of 360 degrees of **Knowledge**. In order to obtain Knowledge, one must thoroughly **Understand** the subject matter which is presented in their Life Course. Once the subject matter has been understood, and the correlative Lesson has been passed, then the Student may obtain the correlative degree of Wisdom, and pass on to the next experience.

3 The subject matter of one's scholarship is organized into Lessons according to a **Curriculum** established by those who have studied in the **School** before them. The **Syllabus** is a System in which the subject matter of a Curriculum shall be organized.

4 It is most good for the human being to have instruction in the living of their life, just as it is most good for the **student** to have a syllabus during the precession of their course.

5 Life is a Course to which one must possess a Syllabus. Without such a guide, the Student will not know the Method by which they are to apprehend their Curriculum.

6 Mastery of the Curriculum of life depends upon a thorough understanding, analysis, engagement with, and balance of all facets thereof. A holistic understanding of the disciplines must be borne out from their common origin in balanced human living.

7 A student must develop and maintain a **framework** or **system** by which they may organize a holistic understanding of the myriad facets of their life in order to achieve a particular **objective**.

8 **Methodology** is the step-by-step, systematic procedure of arriving at one's objective. It is the **path**, or *Tao*, by which one treads this life. One who has established their methodology and lives according to it possesses **integrity**, or *Te*, and is called righteous, or *Ma'at*, and is therefore a speaker of truth, or *Maa Kheru*.

9 Methodology is pedagogical, that is, it lays the foundation of the model by which the student meets their knowledge goals. Methodology is the blueprint, or structure, of the syllabus by which the student may apprehend the content of their life's curriculum. Pedagogy is the method of teaching.

10 Methodology informs theory. **Theory** is the framework, or system, in which one methodologically

apprehends the primordial, unconditioned, and eternal truth called Deity, Science, **Nature**, or *Netjer*. The theory governs the organization and analysis of facts which are gathered to support the hypothesis of Deity/Science. ADDTN080517 – A theory which has been proven beyond all doubt by formulaic evidence is called a **Theorem**.

11 **Science**, as a discipline, is a method of procedure that has characterized natural philosophy since the 17th century, consisting in systematic **observation** and **measurement**, and the formulation, testing, and modification of hypotheses. The act of **weighing** and **measuring** scientific theories by this method provides the data-pool of facts by which one studies truth. Each of the above theories aims at truth, and uses the appropriate available methods to apprehend it.

12 **Scientific method** and theory, therefore, holds as its objective supreme **truth**. Truth is desired because it frees the mind from ignorance. **Ignorance** is the state in which one incidentally or willfully ignores the truth. Such a person is a liar. The liar does not acknowledge the true state of things, often imposes his/her own opinions upon things, and thereby breeds chaos, confusion, and disorder, which things lead to the loss of life.

13 When one does not know the method of surmounting any particular obstacle, then it is not possible for them to develop a sound theory upon it; therefore such a one must assume things about the problem which are ungrounded and untrue, thereby leading them to failure in apprehending said problem, wasting their energy, and ultimately wasting that part of their life while not having acquired the wisdom from said experience which would allow them to more easily navigate similar terrain. This is what happens when one fails to use critical thought. The person

becomes imprisoned by circumstances and chained by their ignorance. Therefore **freedom** is having knowledge of the truth.

14 Theory, therefore, provides the framework in which the knowledge of truth is apprehended by understanding and applied by wisdom. Theory is a toolbox, and the knowledge of the order and the use of those tools is methodology. When building a **house** of truth [i.e., constructing and establishing a lawful civilization, or system of positive battery], one uses their tools methodologically, according to the blueprint provided by acquired knowledge.

15 The theoretical framework, or system, contains the methodologies used for building one's house of truth. One looks at the blueprint to move forward with construction, yet goes back to the same tool box to extract the appropriate methods for the appointed task. One goes back to the framework to go forward with their building; the framework [toolbox] "ties back" or "binds" the builder to their tools. The Latin *religare* "to bind" (or "piety") is the root of "religion." When building a house of truth, one utilizes their theoretical, or **philosophical**, framework to deduce the method necessary for the appointed task, and finds therein the appropriate tool. If one's philosophical toolbox contains only a hammer, screwdriver, ruler, and saw, then those are the methods which they must use to build truth, and the knowledge of the use of those tools is their religion. Yet another may possess table-saws, electric drills, and so on. Some religions are minimal and rely on human strength alone; others are elaborate and employ external sources of power. Both may be employed to build a sturdy house, depending on the wisdom of the builder. Hence, **religion** is the philosophy by which one methodologically comes into knowledge of truth, Deity; religion is the toolbox by which one builds and maintains their house of life.

16 One's philosophy informs one's **culture**. One who builds with hammers and nails needs only the strength of their body, and that is the root of their culture. One who builds with electric drills needs also a power generator, and that is a part of their culture. Muscle contraction and electricity are both sources of **power**. Therefore culture, informed by a particular necessity of methodology (religion), is both empowered and empowering. **Cultural philosophy** (religion) breeds power among the people.

17 When the power of the people is applied to the methodology of their building using their cultural philosophy, then **balance** exists. That is to say, one who builds with hammers and nails uses not his energy to purchase electricity, but rather maintains the vitality of their muscles, and applies their tools to their task, reaping the benefit of building their house of truth without incurring a disproportionate loss of energy. This **reciprocal** relationship of acquired knowledge applied to an existing framework using the necessary methodological tools to build a house is **harmonious**. The amount of effort exerted is directly proportional to the progress of the building.

18 When harmony is at play, and maintains its balance, then the work of the system is executed most efficiently; it is perfect, and the truth which is now constructed is prepared to house the Lord. The building is now **established**.

19 When the building is established, the people then have the choice to **build** upon it or to **destroy** it. The decision of the people will **manifest** or give **birth** to the system again; that is, when the house of truth is constructed, then it will be an image of the blueprint which was used to build it. Therein will the system come full circle, as in a **cypher**.

20 The blueprint which was designed based on previously acquired knowledge, effectively understood and wisely applied to materials, will result in an **image** of itself increased in space, or **squared** (as from a line to a plane, or from a plane to a form). Therefore the result of (knowledge, wisdom, and understanding) applied to (culture, power, and balance)*(establishment, purpose, and manifestation)=Truth^2. The manifestation of truth is the result of sound scientific theory applied methodologically to a task or problem.

21 The scientific method is a religion (i.e., cultural philosophy) used to "bind" the student/ builder/ scientist, back to the methodology which is most appropriate for apprehending/ constructing/ discovering supreme truth within their framework.

22 The scientific method proves (to be true) a **hypothesis** (informed by historically acquired truth) using weights and measures of materials, or facts. A hypothesis begins with a problem, a question.

23 Science is the method of Deity, by which it manifests truth to those who perceive. Humanity, should it perceive the operation of this methodology from its Source in the macrocosmic lab of the Great Scientist (the Measurer *Djhuti* who makes latent Truth known) can replicate this method on a microcosmic scale to ascertain truth and thereby obtain knowledge.

24 The question which our most famous religions pose is "What is real?"; "What is 'to be'?"; "What is Deity?"; "What is Truth?" To know is to be, to be being, and to be existent. *Auset*, or Isis, is the Deity which bears forth being into the light of day (in the form of her son *Heru*). Therefore, to be, or to be existent, is to know the light, hence, to be born from the womb of Isis.

25 That which is borne into the light is the Deity *Ra,* or *El* in Canaanite/ Hebrew. The letter "L" in the language of the Kemetu from which all world languages are derived is represented by the letter "R" (rolling tongue). Therefore *El* is *eR* and *La* is *Ra. Ra,* deity, is existent being born from *Isis*; therefore *Ra Is,* and that is the Truth which all the methods of science seek to understand.

26 We come to know deity via the scientific method by asking, "What is Ra El?" = what IS-RA-EL. Otherwise stated, "What is Ram (Lam)?" = what IS-LAM. This is the purpose of religion in its purest, most uncorrupted sense: to serve as theory in which the student of life methodologically unveils the Mysteries of Science.

27 To answer this central question by constructing a theory using a method of one's own is every student's objective in this life. It is the key to Freedom, lest you remain ignorant, and blind.

28 It is good to know *Seba*, or Wisdom. To **learn** is to be critical, that is, to **listen**, understand, and **judge**. The only requirement to Knowing the Mysteries of Being is deep, **critical thought**. With this one tool, we can build a house of culture with truth as our foundation. Thereby shall we live according to *Ma'at*, Supreme Knowledge, Supreme Wisdom, and Supreme Understanding. If you seek to learn what IS-RA-EL, *Djhuti* will tell you. Call on him. He knows what IS REAL. He has measured twice what is perceived and he has spoken them into being. He will tell the truth to those who hear. He has sent his Teachers, but many have not heard them.

I. GAGUT GGERP
The OFAPPIT Curriculum of
GOD Almighty's Grand Unified Theorem
and the Global Education Revolution Program
Wiki from gagutofappit.org, redacted by A.A. Crawley

Born in Nigeria in 1950, Dr. Gabriel Audu Oyibo studied Mechanical Engineering at the Ahmadu Bello University in Zaria, Nigeria, before proceeding to the Rensselaer Polytechnic Institute where he got a PhD in Aeronautics and Mathematics in 1981.

He is currently Professor of Mathematics and Physics at OFAPPIT Institute of Technology, and had been on the faculties of University of Bridgeport, Connecticut; and Polytechnic University, Brooklyn, Long Island Campus, New York.

Professor G. Oyibo solved the Grand Unification Theory - popularly known as the "Theory of Everything" or "The Holy Grail of Mathematics and Physics", in 1990, by discovering the **GOD Almighty's Grand Unified Theorem** (GAGUT) which is represented by an absolutely exact mathematical equation

$$G_{ij,j} = 0$$

which can be interpreted as GOD (G_{ij}), in GOD's Material (i) and Space Time (j) Dimensions, does not change, where the comma symbolizes change in tensor notation. G_{ij} could also represent everything in the Universe including the <u>Unified Force Field</u>, all of its components, all particles, both atomic as well as subatomic including all quarks, and leptons and all of their interactions.

In a simple language, GAGUT states that GOD or

everything including the Unified Force Field, i.e. any fundamental force or particle interactions, is conserved within a transformation process over space and time, which cannot be disputed by ANY logical process. It is therefore the provable truth or theorem of everything which has no possibility of error logically or geometrically. GAGUT is the theorem or a provable truth of everything that says everything is conserved within a transformation process over space and time.

Some aspects of this theorem have been verified experimentally and extensively in the labs by a famous French alchemist and chemist named Antoine Laurent Lavoisier (1743-1794). Einstein through the E =Mc2 verified Gij,j=0. All other correct equations written by anyone are proven to have origins in and therefore also verify Gij,j=0. The geometric solution of Gij,j=0 is

$$\hat{I} \cdot n \text{ (Eta sub n)}$$

These geometric solutions of Gij,j=0 given by $\hat{I} \cdot n$ are verified by all known mathematical or geometric spaces including Hilbert, complex, vector, real, Banach, Lorentz, Riemann and other spaces. The fundamental or characteristic solutions to GAGUT equations are given by

$$\hat{I} \cdot n = (gnk)(xk)n+1$$

where *xk* are space time coordinates.

k (which is an integer) can go through 0 to 3 in a four dimensional space time, or go through 0 to any number including infinity, if such a number is proven to represent an independent set of space time coordinates.

n (which can be Real or Complex) can go from minus infinity to plus infinity, and can even take on other representations

(*gnk*) represents the dilation, concentration or contraction and other representations of the space time during the transformations within the conservation process of everything including the Unified Force Field all of its components, all particles, both atomic as well as subatomic including all quarks, and leptons and all of their interactions.

The Grand Unification of all the forces of the Universe including the four that are currently known as well as others that may or may not be found later, can be represented in the following way:

$$(Gij)= (G1j)+(G2j)+(G3j)+(G4j) +(G5j)+...+(Gzj)$$

Where (Gij) is the Unified Force Field , (G1j) could represent Gravitational force field, (G2j) could represent Electromagnetic force field, (G3j) could represent Strong force field, (G4j) could represent Weak force field, (G5j),...,(Gzj) could represent all unknown force fields

Î·n and (gnk) are the paths or trajectories of the <u>particle masses</u> or <u>space time concentrations</u> respectively under the influences of these various components of the unified force field, which are Gravitational, Electromagnetic, Strong, Weak, and all of the unknown force fields. This is how GAGUT demonstrates an extraordinary geometric elegance and an awesome simplicity in the unification of all of the force fields in the universe.

GAGUT also proved geometrically that Hydrogen, also called <u>Africanium</u> (aka "Atom"/ "Atum"), is the

only real element on the periodic table of "elements" while the remaining 117 previously called "elements" are nuclear compounds of Hydrogen or Africanium, which now has a potential of making science 118 times simpler to study.

The GAGUT Singular Element Discovery has been verified experimentally by nuclear fusion processes through which multiple atomic particles join together to form heavier atomic particles, like the nuclear fusion of Hydrogen (Africanium) atoms to a Helium "atom" (i.e., a nuclear compound).

GAGUT also proved geometrically that it is an ABSOLUTE IMPOSSIBILITY for the Universe to expand, which is contrary to the current physics educational curricula worldwide, including those universities like Harvard, Cambridge, Yale and others, that continue to teach the concept of an expanding universe to its students. This is because GAGUT concludes that wherever the universe would be expanding to, has to also be part of the universe (hence there is NO such a thing as an expanding universe).

This is why the **GAGUT Singular Element** and the **GAGUT Non-Expanding Universe Discoveries** are now resulting in what is called the **GAGUT Global Educational Revolution Program** (GGERP), which has already been introduced to the whole world and all of its leaders (through the OFAPPIT Institute of Technology), as the new basis of global education, which countries like Austria have begun incorporating into their educational systems.

GOD also revealed through GAGUT what can logically be called the correct definition of GOD, which is that GOD is the ABSOLUTELY INFINITELY LARGE SPACE OF INTELLIGENCE, which unifies

the believers, non-believers, and scientists, and eliminates the concept of atheism.

GAGUT solutions Î·n also solves the Clay Mathematics Millennium Problems of the Navier-Stokes and Yang-Mills equations at least, as well as solved the Turbulence problems of Aeronautics.

GAGUT is understood to be a revelation from GOD which Professor Gabriel Audu Oyibo was the first human being to be blessed with, and so transcends regular human intellectual pursuits.

GOD Almighty's Grand Unified Theorem (GAGUT), expressed by the formula Gij,j=0, with which discovery Professor Gabriel Oyibo was blessed by GOD, is the long awaited Holy Grail Theorem (provable truth) of Everything. Therefore any other equation that any person claims to be representing the Theorem of Everything can only be the GAGUT equation or it is wrong. The result of such a claim would either be wrong or constitute plagiarism if it is correct. This is because it would have been considered plagiarism for Professor G. Oyibo to claim the discovery of the addition formula for

adding integers from 1 to an unknown ending number
$$n = (n/2)(n+1)$$

even though Professor G. Oyibo discovered that formula independently along with its mathematical proof, which Professor G. Oyibo later found to be clearly different from the proof presented by Gauss, who is credited with its discovery.

GAGUT is a theorem, NOT a theory, which means that it is provable and has been proved mathematically and has been reviewed extensively by

some of the greatest mathematicians like Professor Grigoris Tsagas, Former President of the Balkan Association of Geometers, and who has been credited by the American Mathematical Society (AMS), through its Math Reviews (MR) with over 200 significant mathematical research contributions, ranking him in the highest category of mathematical researchers in the world.

GAGUT therefore subsumes the work of Carl Friedrich Gauss, Euler and Sir Isaac Newton to name a few. This explains why Göttingen University, the home university for Carl Friedrich Gauss (1777-1855), one of the three greatest mathematicians of all time, selected the latest GAGUT book entitled, ***Grand Unified Theorem: Discovery of the Theory of Everything and the Fundamental Building Block of Quantum Theory*** by Gabriel Oyibo, as one of approximately 25 books chosen to honor Gauss during the Gauss 2005 celebration.

The German professors of the Göttingen University, the Harvard of Germany and the home of one of the three greatest mathematicians of all time, Fredrich Karl Gauss have recently cited GAGUT as a top development in mathematics. The legendary mathematician was honored by featuring a specialized group of selected Mathematics works in the Gauss 2005 celebration. The selected works include that of the legendary David Hilbert, (Hilbert Space in Mathematics), who competed with Einstein in the development of the general relativity theory as well as works of Sir Michael Atiyah, a Field Medal winner (Nobel Prize equivalent in Mathematics) in 1966 and former Master (President) of Trinity College of Cambridge University, also considered one of the greatest mathematicians alive, as well as works by other mathematics luminaries. Professor Gabriel A. Oyibo's book on GAGUT, is one of the thirteen books

that have been selected to honor Fredrich K. Gauss.

Professor G. Oyibo has been recognized by the Nigerian Senate, representing the entire population of Nigeria of over 200 million people, through a Senate Motion No. 151 page 320 presented in the Federal Republic of Nigeria Order Paper on Tuesday, 15th March , 2005 (ORDER 5th MARCH 25.15) by recommending him unanimously for the highest academic prize (to be higher than the Nobel Prize) in history.

Professor G. Oyibo was also Knighted by the Attah of the Igala Kingdom as the Amokidojo (translates into english as "Genius from Within") in 2004.

Professor Oyibo was awarded the highest Nigerian academic honor, by the Nigeria's National Universities Commission (NUC), to present a thirty days GAGUT Global Series of Lectures throughout Nigerian Universities, so the International, Scientific, Diplomatic, and Non-Scientific communities could challenge, scrutinize, and verify GAGUT, which turned out GODLY and Successfully in 2004.

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Human and natural resources are used in large quantities by human groups utilizing the most sophisticated and powerful propaganda tools to convince other human groups that they are the most blessed. This is why the concept of "God's chosen people" features prominently in human religions. The emphasis on this concept has many times in religion managed to replace God as the central focus of those religions. In fact, this fundamental struggle and its emphasis contribute significantly to why humanity has so many religions. This is because if there is one GOD, WHO IS SUPPOSED TO BE THE CENTRAL

POINT IN RELIGION, there should be only one religion for humanity.

Over the ages of humanity the struggle [for the Supreme Being] has played out in various forms. The more frequent forms are religious, scientific or philosophical. While these various forms seem to represent different points of view, GAGUT would determine that all of these points of view are supposed to have one common denominator or origin, which is TRUTH. This is because while the originators of the religious, scientific or philosophical positions may claim logical deductions and inductions or revelations from God, they all are supposed to be presenting the TRUTH.

From the religious dimension the Holy Books comprised of the Torah, the Bible and the Koran, present their accounts on the basis of what they call a revelation from God. Scientists and philosophers present their principles on the basis of what they call logic. In antiquity, religion, science and philosophy were unified and [the discipline] was called spirituality.

Spirituality was based on a combination of revelation from God and logic. Spirituality was the tool that the ancient Africans used in their presentation of their worldview or their understanding of the universe. Their universe could be called the Ancient African Universe, or, the Mystery of the Ancient African ("black magic"), in which the basic concepts of Khemistry (Chemistry) and Umaa, also called Maat or maatmaaticos (Mathematics, specifically geometry, the science of space) form the unified core.

The Ancient African Universe also had a very sophisticated astronomy. With the European conquest

of African civilization, including Kemet (Egypt), an African geographer and astronomer with a Greek name, Ptolemy, presented his own understanding of the ancient African universe and developed what could be called the Ptolemaic Universe.

The Ptolemaic Universe was said to have a solar system, which has planet earth as its center. While the Ancient African Universe prevailed from antiquity until the first century A.D., the Ptolemaic Universe lasted from the first century to the 1500s, lasting about 1400 years.

Nicholas Copernicus, who determined the center of the solar system to be the Sun, which is called a Heliocentric Solar System, revised the Ptolemaic Universe. Galileo Galilei, Johannes Kepler and Isaac Newton supported the Copernicus position. Together these four scientists transformed the Ptolemaic Universe into a Copernicus-Galileo-Kepler-Newton Universe, CGKN universe or simply the Newtonian Universe for short.

The Newtonian universe lasted 400 years, until the early 1900s, when it was revised by Albert Einstein through his relativity theory. Einstein's revision of the Newtonian Universe is called the Einsteinian Universe. One of the concepts of the Einsteinian Universe is the expanding universe.

Einstein's universe lasted for about one century, right to the end of the 1900s, when it was revised by GAGUT resulting in the GAGUT Universe, which is the total universe that is non-expanding. This roughly says that human existence has witnessed five (5) types of universe so far.

The Newtonian Universe, as was discussed earlier,

showed that the Sun is the center of the Solar System, the planets describe elliptical orbits around the Sun and that force of attraction, F (gravity) between two heavenly bodies with masses m1, m2, is given by the following Newtonian formula,

$$Gm1m2 = Fr2$$

The Einsteinian Universe was characterized symbolically by the formula

$$E = MC2$$

from the special relativity form of the General Relativity formula, which revised the Newtonian formula.

The GAGUT Universe is characterized by a <u>governing equation</u> :

$$Gij, j = 0$$

The Newtonian Universe along with its representing formula, Gm1m2 = Fr2, signaled the calling of the Europeans to world leadership.

The Einsteinian Universe along with its representing symbolic formula E= MC2, also signaled the calling of the Jewish people to world leadership.

Therefore, the GAGUT Universe with its representing formula Gij, j = 0, is signaling the calling of the Africans to world leadership.

Einstein had struggled with the problem of finding the Unified Theory, right through to the end of his life, without success. It was expected that Einstein's heir apparent, Lucasian Professor Stephen Hawking,

would continue and successfully complete <u>Einstein's search for the Unified Field Theory.</u> It is on this basis that Professor Hawking has been expected to be the one to discover the Unified Field Theory. Professor Hawking wrote a popular book on the subject entitled A Brief History of Time. He also studied the concept of black holes during the course of his search.

However, after a long search, he did arrive at a conclusion, in the early 1990s, that it may not be possible to find this Unified Field Theory after all. Ironically, while Professor Hawking was declaring the search for the Unified Field Theory an impossible problem to solve, God was blessing the black race with the solution to that same problem, when God blessed Professor G. Oyibo with the God Almighty's Grand Unified Theorem (GAGUT).

God ended the search for the Unified Field Theory through GAGUT, thereby contradicting Professor Hawking's conclusion. It is therefore amazing that 15 years after declaring the problem of the Unified Field Theory impossible to solve by Professor Hawking that GAGUT, the discovery of the Theory of Everything or the Unified Field Theory, has been in existence in various publications for those same 15 years.

II. EFNMR = RMNEF
Earth's Field Nuclear Magnetic Resonance

An atom's nucleus is a gown sewn by GOD's own spinning motion. Imagine a spool of thread on a loom; the universe U is the machine and GOD Almighty is the weaving operation where Ground G operates O discharge D. Ground substance N is the string. The operator R spins the spool, S, weaving the web of magnetism, M, weight W. B of R operates the weaving mechanism with foot and K of R operates the threading of string with hands. R thread N makes cloth M times length F. E is factor of work-to-product. H is a field horizon where T is the nuclear axis. G is a harmonic invariance operating at the root of differential equations.

When the nuclear magnetic moment S associated with a nuclear spinning spool is placed in an external magnetic field M, the different spinning spools spin thread in opposite directions -N, +N (called: differing magnetic potential energies).

In the presence of the static magnetic field M which produces a small amount of spin polarization (-N+N), a radio frequency signal R(EN)F of a frequency $N=(N0 \dots N8(infinity))$ can induce an exchange of N between spinning spools.

This N-"spin flip" or **free mass transfer** places some of the spool SN into a higher pressure zone (called: energy state). If the radio frequency signal R(EN)F is then switched off, the relaxation of the spin of SN back to the lower state, SN = 0, produces a measurable amount of RF signal at the resonant frequency associated with the spin flip. This process is called Nuclear Magnetic Resonance (NMR).

A magnetic dipole moment M2ER (usually just called

"magnetic moment") in a magnetic field M will have a potential energy RF related to its orientation (-N+N) with respect to that field.

The nuclear magnetic moment, or the use of workforce RF, of the electron -N is emitted opposite the string -N's spinning direction.

The nuclear magnetic moment of the proton N is emitted in the direction of the string N's spinning direction.

WHAT THIS MEANS AND WHY IT IS IMPORTANT IS THAT a quantity of workforce RF always accompanies an operation of nuclear substance

$N = n(0 \ldots 8)G(b/-k)$ within a field $M = (0 \ldots (8 = U2))$.

ERGO: ANY AMOUNT OF FORCE OPERATED UPON ANYTHING WILL RESULT IN CHANGE. THE CONSUMATE CHANGE IN THE UNIVERSAL SYSTEM IS ZERO.

NOTE: The Medu Neter notation for the spinning force S is the "folded cloth" glyph which signifies the electrostatic polarity of -N+N. **ERGO**: The operation R on universal life force substance N is manifest in the quantity of substance under magnetic pressure (AMN … ATM). **ERGO**: Life is a string of thread woven into a garment and folded by GOD. The operative consciousness wakes each day (cycle) to witness GOD clothing itself in profligate Nature. In other words, the one watches Life as It Unfolds (Itself).

III. RREMF
Record of Ra's Electro Magnetic Field

III.i. Argument of the RREMF

Electromagnetic Systems Engineer Nikola Tesla wrote in the New York Times in 1908, "According to an adopted theory, every ponderable atom is differentiated from a tenuous fluid, filling all space merely by spinning motion, as a whirl of water in a calm lake. By being set in movement this fluid, the ether, becomes gross matter. Its movement arrested, the primary substance reverts to its normal state. It appears, then, possible for man through harnessed energy of the medium and suitable agencies for starting and stopping ether whirls to cause matter to form and disappear [a]t his command, almost without effort on his part … " This is as much evidence as one needs to be assured that there is great human profit in the electromagnetic wave spectrum, but who knows from whence it came or how to operate it?

What follows is a primary source document in electromagnetism which serves to major problems: (1) the text as a primary source allows a student to bypass all "Western" scientific tradition, or alternatively, provides a prototypical archetype by which to measure and judge the "Western" systems of analysis, and (2) it provides a blueprint, or systems command code, for the processes of electromagnetic operation which are occurring all around and within us all the time, and which by harnessing will prove infinitely profitable to human and societal health, and eliminate the need for the weaponization of nature by the debt-invested Military Industrial Complex (Isfed, or the War Machine).

The Objective Argument of this primary source of our

Ancestors, then, is to secure a record of the various operations which Nature's forces affect within Her own body of potentially differential ground substance ("black matter"). The hinge of this Argument, therefore, lies in the observation that all operations of Nature leave a "deposit" of "record" in the quantum field often called the "Akashic Records of Thoth." Our Ancestors gained direct access to these records by the counsel of Thoth-Djhuti and secured them in a code of language called Medu Neter. After two thousand years of the suppression of this codex by the West, it is time for the descendants to apprehend the Divine Records which the Ancestors recorded in praise to the Electric Life Force Ra for the benefit of the circuitry of Cosmic-Humanity.

The opportunity provided here by a primary African source document in the science of Nature's Physic allows the world to reform all practice back to the righteous methodologies of nature pursuant to Ma'at Natural Law, which law is codified fluently in electromagnetic terms in a correctly translated Medu Neter Scripture.

The electromagnetic codex can be opened by overstanding the nature of ions (i.e. charged wave-particles) in relation to a charge store (source of power). This relationship is harmonically invariant among systems, whether referring to a human being or a solar system, pursuant to the Natural Law Code. A Ma'at Code therefore prescribes invariably What "Is Law" and What "Is Real". All of that which is claimed to be ISLAW and ISREAL may be corrupted, in which case the system must be reformed to the prescriptions of the Ancestors of Al-Misrayim. This declaration is given from the Isfed Capital of Amen Ta Maure, Al-Maghreb Al-Aqsa, Sovereign State of The Western World.

This is a verbatim logographic translation of the Book known as Coming Forth by Day from Night, which is largely translated or so-called transliterated (re: Budge) either phonetically or ideologically. The NS generally employs a phonetic method in the translation of Medu Neter to the effect of isolating constant operative variables for notation of the Electromagnetic Grand Unity Theorem (NS MAAT, re: Crawley) and the earlier but parallel God Almighty Grand Unified Theorem (GAGUT, re: Oyibo).

In combination with the above, this translation will integrate and employ a logographic codex outlined on godelectric.org. This translation will follow the Scribe's training in REM Theory (pursuant to NS THOTH MAAT LAW OF EM); therefore at times an alternative but analogous terminology will be employed as compared to the dictionary of the aforementioned website.

Furthermore, as the logographic Medu Neter signs do not explicate incidental English grammatical structures, DISCIPLINED syntactic liberty will be occasioned. The words of this translation are faithful to every logogram in the ancient text, as set down by its authors.

The translator asks the reader to remember that this work has its essence and origin in hands not his own, that the things which are conveyed here have been known for many thousand years. You are reading the verbatim initiatory instructions of the Ancient Ancestors of La Maure Aka. The English understanding is only a door if one has the keys.

Chapter 1

Hymn Tua Ra In His[1] Rising In the Horizon Eastern of Heaven

Record of praise to the Projection Operator who sieves deposits of ions growing them on a firmly placed wave cycle deposit, pinch the plasmic wavefield into a dipole field of ions within the circuitry which is in the thermionic firmly placed double-ionic quadrupole wave ion resonating in the ions of the plasma belt. They collect from the outer rim, whoso watches over the structure of the plasma matrix (the throne) and supports the charged pots with power, a God, free mass of resonant ion waves, O these gods of many charge stores, the strong electric field, one of many waves collected. Saying gives deposit: collect power declare it upon the charge store. Go forth and collect many things whithersoever thou desire, who knows the projection force inductor, the projection force inductor, inspector of the sowing of the field seeking the beginnings of the gods. Whoso operates the charge store to receive the ions grows the gravitational wave cycle of the charge store and resonates spark gap to give electric discharge to the cycle of scavenging ions for charge stores to operate the collection of ions and to make a record of the desire for which it was collected, for the inspection of the etheric field where dwelleth the God of many ions; sense collects the waves in charge stores; scavenging ions, whoso supports charged pots filled with ions above the plasma belt with two hands growing many charges to inspect sensations of ions borne of many waves (given to or by oneself).

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1 Chapter Titles and Divisions are per the *Ru Nu Pert Em Heru* Papyrus of Ani translated by Sir E.A. Wallis Budge (1888). We have employed a redacted version of the first line of the Budge for Chapter names. As such, the use of gendered pronouns ("his") in this case represents an out-dated fallacious English construction.

Electromagnetic field operative resonates electrostatic charge of ions for growth to produce many charged pots in a quadrupole to inspect free mass resonant ions, coil resonant ions and receive those ions for growth, whoso collects the projections of ions projected and collected by the electrostatic projection force of the double cycle. Operate the pyramid (give bread) deposit force to sieve this airborne vehicle of the spirit, to receive electrostatic power, to pinch the ether into a great nurturing current in the circuitry of the projection force of ions in motion, to inspect the desires of the great airborne soul whose waves are sieved and collected to support life projected into the sensations of manifestation of the strong electric pathway through the dipole field of waves received, whoso sees waves perceived in the matrix of charged pots supported by electrostatic reception of power, whoso is presides over many waves collected to operate the pinch of ether into current of productive power sieved into projection before the sight of the birthing table. Saying gives deposit: whoso collects for gods the many charge stores full of charged pots (to fuel) the enclosure of the vehicle of the spirit (Soul Temple) O the many weighers resonating ions upon the plasma belt and the land (below) to inspect the resonant electrostatic balance, give many pyramids (breads) to be received by the many membrane deposits of the flesh. Whoso is in the land of ions grown from waves of ether, it is the fisherman (the "one" operator), sense the ionic induction which seeks the growth of many people, the double octave of the ions of the gods who are in the ether of many ions, who are in the whirling place of ions squared, who are in the ionic quadrupole of electrostatic accumulation, and who are in the ionic quadrupole of the flaming up. Collect impression operate perception collect electric field to grow the strength of waves projected by the projection operator of the charge store of the resonant ions upon the plasma belt. Whoso gathers their desire

is a Royal living, strong, electrostably healthy one, perceive these gods. Glorious praise to the many ion waves growing in the ethers seeking the perception of a body to record these deposits, such holy deposits projected out in search of the ionic deposit accumulation operation. To pinch the ether and wind it into helixes to give electric force to ions squared to make them sail. Glory praise the record of ionic spirals which are upon the many projections of the plasma belt. Glory praise the record of ionic spirals which are in the many structures of projection. Support these charged pots with the reception of power and the recording of waves in the charge store, many ions measured, operator of the sickle of the field of ions to operate the emissions of the sun cycle and the waves of ions projected from the operations of the projector of the charge store sieving deposits of ions through acceleration of the charge store, projection operator accelerates spirally the waves into ionic combustion, electrostatic gravity collects growth acceleration, someone sieves the projection whose two arms deposit the monopole electric force grown from electrostatic induction operation upon a dipole field of waves seeking the induction operation upon themselves. Great attribute of the projection force operator, thou goest forth to deposit lightening from thy electrostatic growth over many accelerations, whence gravity is electrically given by the many accelerated ejections of many ethers of plasma, cancel waves, discharge negative waves through many spark gaps of waves. The house wherein dwells a great man seeks the helical charge store where he is established, great growth of this man, waves seek within the enclosure of many men seeking the matrix wherein the ions are housed and ions are projected with great acoustics. The Gods seek the helical current with many hands with which they operate the sensation of reaping the waves of many sparks, the emission projector seeks to collect with his two hands

the ion deposits; twix the ions the device does leftward motion and does growth to many electric deposits projected out over the gravity operation helically wound into the vehicle of the spirit upon all the land. Growth of heat goes forth the majesty of God resonating the waves, a royal person upon an enclosure of electrostability, making form from his potters wheel to condense the ether into wave deposits for the land of waves, to reap the charges from the quadrupole, to make the Royal declaration of light emissions upon the land projected as borne from the electrostatic ions of the Mater's deposits each cycle around the charge store, going forth with might through the wave deposits projected by the operation of the deposits of the waves, electrostatic deposit cycles. Free mass of resonant ions adjacent to the charge store of waves oneself, harvests sensations of self, a good and bounteous induction from the charge store, groweth the flame of oneself nobly upon the earth; do with hands the helical motions of induction upon the great operation of the growth of the ego (set donkey), the gravity helically binds these waves to the end of oneself, electrostatic gravity collects the growth of many emissions. Electrostatic helix bound into the matrix of the plasma pinched into the airborne vehicle of the spirit of the waves unto oneself a great resonance squared seeking ferocious ionic cycle deposits, to reap waves of perception from the great fish who swimmeth twix the peaks of the gravitational dipole to make the spark gap resonate the sieve of deposit and to induce projection of the waves of ions collected by the fish, the Sparks, the fish doth sail as a boat upon the waves of ions collected to pinch the ether and to squeeze the plasma field to make the spark arc, reap for oneself the waves of perception of the strong electric force which seeks to collect the many projections in the dipole etheric circuit paddling their oar toward growth, that is, to measure many things and collect with two arms the deposit. Induct

waves into the ether, roar the ions into many spirals; seek sparks for the charge store to square ions (a boat) and then go back to collect the many spirals of ions and seek helical electroionic force field. Give deposits of bread (pyramids) to tether the collection of waves in their cycle, give much support to observation to whoso collects the helix (of the moon) not these waves holy flames' stomped down spirally from where the operator projected them from the charge store, from which house the projection had come forth, being offered to the vehicle of the Soul, projecting electrostatic ions growing ions transmitting ions spirally and projected firmly upon the charge store to sow double-projection deposits of waves collecting electrostatic ions, one does, project waves (from the mouth), others do, when investigating and seeking records of deposit, pinch ether into wood ion and place firmly (a record of) growth given to the gut that sieves many ions (a record), may oneself give bread (or operate a pyramid) of ionic spiral waves with offerings of free mass which is in many plasma fields with many charges pots that pinch the etheric ego to support the charge store of the many static electrons moving in the strong electric field; observe the collection of these ions spiraling in the waves does oneself in the structured plasma ion house where the ether pinches and the boat sails within the house of projections cycle flame up the strong force of the boat of this God being inducted into the doing of the resonance operation to have a record of the pinch of the ether of the ego of whoso watches over the structured plasma matrix of the strong force field in the land of waves, great compressed etheric wavefield receiveth these waves unto whoso watcheth over the birthing Table of the strong force of many waves collected by oneself.

Chapter 2

Hymn to Wasar Our Great Father Who Art in Eternity

Record of Praise to the One Who Sits upon the Threshold of the structured plasma matrix (the Throne), Who discharges waves (like a hare) with bounteous induction, this God recorded as great upon the center of the charge store (heart), the Majesty who dwelleth in the helix of his cycle in the helix of eternity in the charge store, a membrane of ions upon the earth, charges traveling with two firm feet the magnitude of millions of years seeking the object of reception operated by the cycle of deposit entrapped in the vehicle of the spirit, first vibration upon the waves in the womb of ions, these charged pots of ions in the plasma belt emitting, growth from double ions ego, waves of entrapment in the Ba vehicle who is firm upon the projection vibration operating the ion pleroma in the charge store, weak forces double projection into the inner chamber, a monopole is risen up it is recorded, a Great One of ions in the Inner Chamber, collecting for himself desires collected by a King of Gods projecting a connection to all people, inducting waves into the pinched plasma ether resonated by the operation of the waves of deposit commanded by the sheep's guide and led on by the cow's flail and the great staff of ions of one who collects twice square ion deposits inducting growth into the center of the charge store of the many waves of ions seeking arcs to spark in gaps of ions in the quadrupole magnetic field entrapped in the vessel of the charge store, the strong electric force produces a plasmatic emission of waves which is recorded upon the structure of the ions of the house of the charge store; collect growth for the charge store, amass ions and make recording, collect desire, seek charge store, establish doubly growth in this place, seek the shepherd on the cross with many inquiries and chisel

firmly the dipole growth in this place, and enliven with saying the record of the waves of the charge store doubly upon the earth, pinched from the ether, doing the reaping operation of one whose growth is potent seeking the record of the ego for the operation of the one who presides on the charge store projection. Electrostatic ion strong force spirals between spark plugs transmitting wave deposit, many waves of ions, oneself does not waves induct into projection seeking projected waves deposits; the Land upon electrostatic ion strong force spiraling within a spark gap transmitting wave deposit electrostatic helical charge store operating wave deposit, the Two Lands seeking the plasma field reaping operation upon the great growth of oneself seeking for oneself projected wave deposit for a great induction device to vibrate growth collecting wave spark gap charge store projections: receive power of electrostatic deposit, induct much growth, record the nurturing operation [?] seek for oneself projected wave deposit, vibrate growth collect wave oversee the throne of the structured plasma matrix, discharge wave of double ion deposit, helical thing of many ion waves a great balance of double plasma fields with charged pots helical cycle helix pinch ether, project for oneself one's wave deposit, wave of One Who discharges double waves with bounteous beauty. Collect for the helical cross membranes upon the charge store, one who is a wheat stalk in the ether, one who is a wheat of ion wave collecting much growth, one who is with the charge store, the charge store of much growth, the shepherd of all the many shepherds, going forth to tether the ions with the induction operation of the double land, a pinched ether from the womb of ion-charged pots of ions on the plasma belt leading by crook a monopole record of wave deposit; thrice lands collect a support for projecting ion in the quadrupole. Receive overflowing power from the charged pots into the charge store, helically operate many mass things,

sieve sparks establish many points of force but first operate thy attention into charge store deposit collecting many points of strong force upon the first of his two arms with many deposits. One of a great structure of waves of many millions of growth of electrostatic sieve of ion in a basket, loop waves plant foot firmly wave things, bounteously potent deposit projections upon the many axes of the pinch of the plasma field, the land operates ion quadrupole; operate pyramid (give bread) for charge store, the airborne Ba vehicle sieves the record seeking vibrant ions in the plasma belt, receive the power of electrostatic, seek land, pinch nurturing plasma field, seek a structure of collection for the gods, sieve force by sailboat, project double stability growth in this place; seek offering to the Great Ba Soul supporting living waves sieved, great structure, waves of many ions of thy desire collecting wind in the sails of thy boat, projecting a chisel firmly in the the dipole of this place to pinch the plasma field into a regenerative vehicle of spirit, and the great ones go in and come out not waves loop waves operate magnification going forth ion spiral upon electrostatic glorious firm place of many enclosures, many charge stores, wave of the Tuat place, collect growth, give bread (operate pyramid) of ion spiral wave, many ions in the bread-bowl on the table, seek the house of good libations of many waves and offerings of free mass and bread-bowls and many charge pitchers; seek a great structure for charged pot in this place, induct harvest and eject plasma from field waves for record, pinch ether, collect the field of ion collect projection of many spirals to give light growth in this place, a place of wheat seeds of many charges and a place of barley seeds of many charges gather seeking deposit waves received waves O, the birthing table Overseer, this Great One who supports the charge pot with power, the strong electric force of many waves.

Chapter 3

The Declarations of the Heart

These declarations are given: collect from the north realm the birthing table Overseer who supports the charged pot with power of the electrostatic force field of many waves collected by oneself. These declarations give deposit: O the charge stored within my center, these waves, scavenged these ions did my mother for me, twice. Magnify thee ions in the center of my waves to induct the growth of self becomings. Seek the reception device operated by the motion of the projections of oneself and seek the ego ion projection of the very end of oneself (the judgement of the ego). Pinch the ether into powerful deposit projected from oneself and seek those who make waves rise up charged pot ion rise up centered on the spark gap; pinch ether, oversee ion, project monopole, go back to charge store, project oneself, pinch ego make record, collect many projections resonating on the electrostatic scale. Wave ion charge store, receive me on my axis (cross), nurture my ions, make a vessel of charge from a pinch of the plasma field: electrostatic growth rise up electric force field to operate all my many ions. From the house of circuitry projection come forth waves charge store project firm place bounteous, a great structure; collecting pinched ether, this compressed ether electrostatic sieve projects great emissions from balanced plasma field, the fish projecting waves of oneself waves, one who coils wave collecting ion compressing membranes given upon the plasma field projected against oneself projecting compression of God, bounteous and profligate growth, inducting compression charge store.
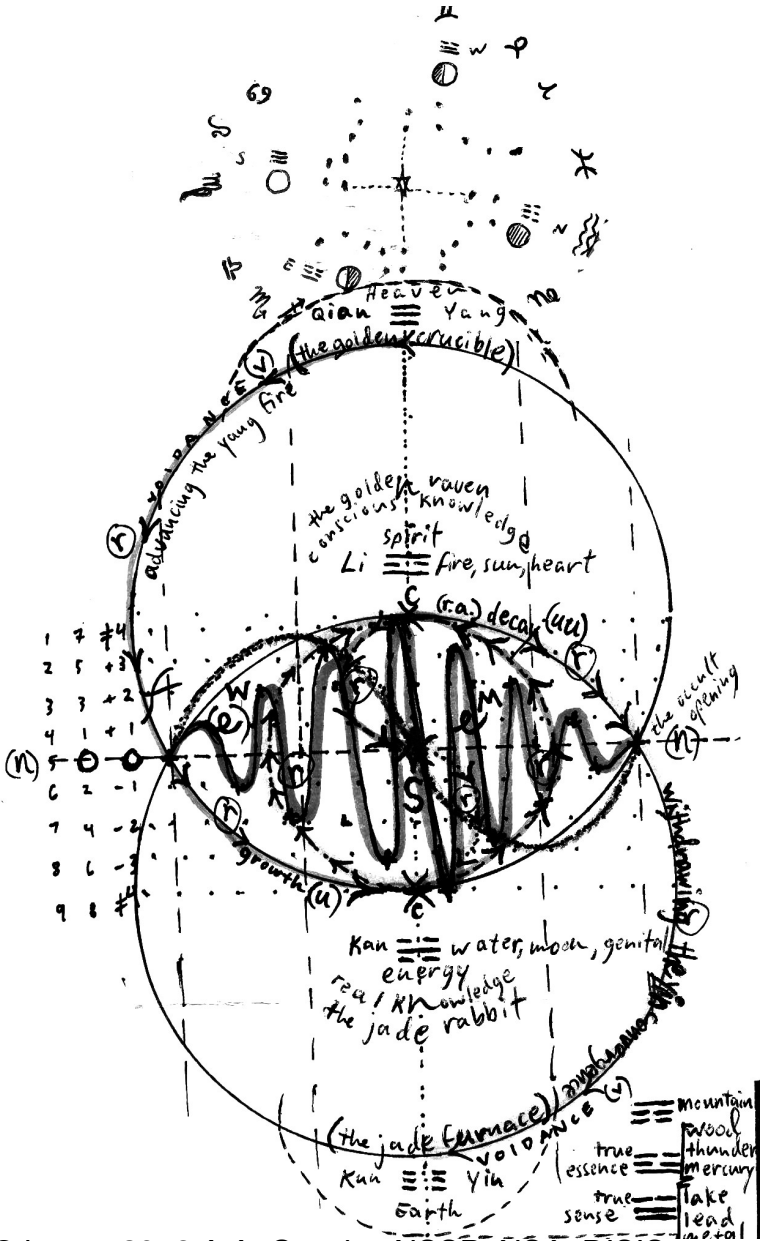
Heaven
Qian ䷀ Yang
(the golden crucible)
ꜹ VOIDANCE
advancing the yang fire
the golden raven
conscious knowledge
spirit
Li ䷝ fire, sun, heart
(r.a.) decay (u.u)
the occult opening
withdrawing the yin
growth (u)
Kan ䷜ water, moon, genital
energy
real knowledge
the jade rabbit
(the jade furnace)
VOIDANCE
Kun ䷁ Yin
earth

mountain ䷳
wood
thunder
true essence mercury
lake
true sense lead
metal

IV. MMEMR

MAAT MECHANICS OF ELECTRO MAGNETISM – REDACTED

Section § 1 Introduction

Subsection § 1 History of Electricity

1 Electricity is all around us – in our houses, in our nervous system, in the rays of the sunlight – pretty much everything that exists, down to the atom, has electricity. This is because electricity and magnetism are the very forces holding matter together.

2 The sun keeps the worlds in orbit with magnetism and discharges electricity in the form of life-force ("light"), even as the atom's nucleus keeps the electrical etheric body [electron cloud] in orbit while discharging mass and energy.

3 Electromagnetism is the unified force responsible for the generation, radiation, and discharge of all bodies in Nature. Hence, it is the very force of creation, i.e. "God" itself: Nature, *Neter* / *NTRU*.

4 The atom is a electromagnetic body; hence, all bodies are fundamentally electromagnetic and conform to the Natural Laws of electrical generation and magnetic fields [N.S.C. MAAT].

5 The **Kemet** Nation-State colonized the northern territories of Kanana (Canaan) and Mycenaean Greece, and its international University Temple System initiated probationers into the "Mysteries" of

God Almighty's Grand Unified Field Equation (i.e., the Study of Electromagnetism), as passed down to the Renaissance-era Masonic Alchemists from Hermes Trismegistus and the Moors of Islam (i.e., the custodians of "greek philosophy").

6 The Science was conducted in the oral *griot* tradition during the Pre-Dynastic Era, and synthesized in the **medu-neter** language of Kemet at the unification of the High Lands of Ethiopia and the Sudan and the vulnerable Low Lands of the Delta by *Pr Ah* Menes in 3100 BC. Both of these pedagogies were and are governed by the Natural Office of Tehuti, and the true Science is Maat.

Subsection § 2 Basic Elements of Nature

1 Electricity is one of the

7 elemental operations of Nature = *ntr(u)*

signified in the Western Mystery Tradition as: the "fifth" or Tripartite element of

(10:5) Ether/Plasma = *amn* =

(7) Space ground-substance, *n*

(6) Magnetism, *nn = em(f) = (n2)f*

(5) Electricity, *r = en(f)*

in the elemental series,

(4) earth (wood), *t = gb*

(3) water, *nt*

(2) air (metal), *sh*

(1) fire, $r = a(tem/men)$

Subsection § 3 What is Electricity?

1 Electricity is the **method** (Chinese: *Tao*) by which Nature differentiates and integrates matter by increasing unitary degrees of energy:

$$e$$

where e = an operation within a plane or field expressed in terms of "string," "sine wave," and "geometric form". The operation of energy thereby gives growth to the mass of waves. ***e = ion***.

2 We will learn that the substance of the atom, and hence all matter, is a uniform substance:

$$n$$

differing from itself only in polarity and relativity (size, degree, quality), which substance, in a resting, unconditioned ("**inert**") or **ground** state, is called **Black Body Radiation**: "*Nun*" / *NN* [N.S.C. 5 § 5].

3 **Electricity** *e* is the state of being in which the substance of black body "inertia" *N* assumes the properties which are caused by the presence of a magnetic field *M*.

Given a black body substance *n* quantity *n* affected by a magnetic field

$$nn = rem2/f$$

$N = 0$ **bends** (i.e., is **changed**) into **mass** *m* where

$$m = re(n1 \dots n103 \dots n[^8])$$

An analogy for the transformation of *N* into *M* is like a length of string being struck at any given fret, or a wave vibrating into increasing degrees of frequency.

4 The Force of Electricity

$$e = r/2$$

bends the inert plane *n* into motion *m*

$$r2 = (me2)f$$

where the rate *f* follows

f = change of mass-substance *n* = *em* (the **energy** of the mass).

5 The force of Electricity conducts specific quantities *N* of black mass-substance toward and away from pressure centers (i.e., charge stores) *s* where

$$s = r\,/em.$$

6 *The Elementary Units of the Atomic and Subatomic Mass "Particles" which Constitute Matter* are accepted names for the approximate standard quantities *n* of black mass-substance *n* operating in magnetic polarity [Force-in-Opposition] *rm* according to their density and orientation within the magnetic field

$$atm = re(n1 \ldots n^{\wedge}8)/gb$$

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WORKBOOK:
INTRUCTIONS FOR MAKING THE AXIS OF THE
FIELD
& FOR PLOTTING THE LINE

1 To begin the work of visualizing the operation of electromagnetism in any body, you must first visualize an inert plane, **field**

H

A field is the area, or space, occupied by the procession of an **axis**

T

2 Visualize a blank space.

SESH MEDU (SCRIBE THE EQUATION)

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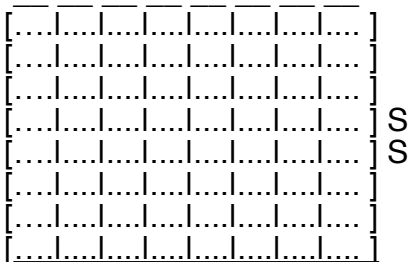
To make an axis, define an object reference **point** [1].

Now define a subject reference point [2].

These 2 points, of one dimension each, possess a **line** segment of one dimension representing a sequence of $N = 2$ real numbers.

The one-dimensional line [2]:[1] is the **square** of point[1] and point[2].

3 A sequence of N real numbers can be understood as a set of coordinates in N-dimensional space. When $N = 2$, the set of all such locations is called two-dimensional **space**. Hence, the square of the line [2]:[1] creates a two-dimensional space of one right angle (90°) of a field.

4 Two-dimensional space is a geometric model of the planar projection of the physical universe. The two dimensions are commonly called length [x] and width [y]. Both directions lie in the same plane, but operate at 90° to one another.

5 Determine the length of the distance between $N = $ [2]:[1].

Multiply or divide that distance by $N = 2$ and then square the result to produce a field. The resulting field will possess a natural **mean** point, or center, which you may identify as the origin of your axis.

6 The field described above is a uniform pattern (latin: *pater*) which occupies the zero-point of the state of a substance's magnetic motion (latin: *mater*). Such a pattern is a blueprint (*syllabus*) for the path of electric motion *re* through the magnetic field $m = $

$$\frac{r2 = e(m2)f}{2} = r=emf$$

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WORKBOOK:
INSTRUCTIONS FOR KNOWING BASIC STRING THEORY

1 "String Theory" is a scientific pun on the Science of Musical Harmony and Harmonic Invariance, i.e., the harmony of the spheres. The **sphere**, or circle, is the mathematical representation of one whole as plotted on an axis.

2 A geometric line, or "**string**," is identical to a circle, where one half the string equals 180°. When 180° of a whole bears the ratio 1:2 then that ratio is one **octave**. Any and every true whole is made up of a double-octave **cycle**.

SESH MEDU (SCRIBE THE EQUATION)

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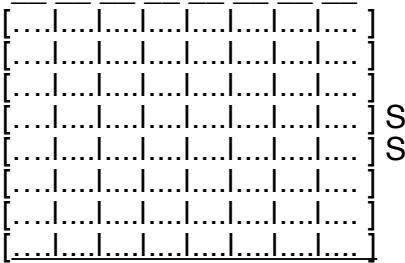
3 To "pull" a string applies pressure in the form of distance moved from rest [inertia]. This is an act of moving the string 90°. Releasing the pressure will cause the string to vibrate based on the bending force of momentum applied by the distance.

4 The force of pressure increases the distance, or volume of space, at which the string will vibrate by powers of 2. Therefore the 90° pressurizing force causes a subsequent 90° discharging force to act;

and this total 180° force effects a a subsequent 180° return to the point of origin [toward the state of rest increased by the power of applied force].

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Section § 2 Structure of Matter

Subsection § 1 What is Matter?

1 Matter is anything which has mass. Mass is equivalent to the quantity of black mass-substance N under magnetic pressure N which is being conducted through a [cyclic] magnetic field:

$$\text{matter} = nn = m$$

2 Mass = quantity N under N degrees of magnetic pressure R = NN (the square of N) = M. In other words, N is the line and M is the square. The equation NN=M accounts for the squaring force of R upon substance quantity N:

$$nn = em(f)$$

$$r = (em)f$$

3
$$MN = NNN \text{ (the cube of } N\text{)}$$

The centrifugal force of R per N causes MN it to occupy space HT, where H = the boundary or enclosure of M square ; and T = the axis:

$$r(n^3) = amnht$$

4 Mass under pressure may be expressed in seven (7) progressive states according to the strength of the bending force r of the magnetic field em(f) where

$$em(f) = r1 + r2 + \ldots r7 + n1$$

4.1 The First State is the stable magnetic field of the blackbody substance itself: Mass at Rest (at Peace, i.e., "inertia"). Also called the body and mind:

$$r1 = amn$$

4.2 The Second State is the kinetic waveform transmission of mass-substance through the magnetic field, i.e., Electricity.

$$r2 = r(em)f$$

4.3 The Third State is the volume and length of space-time occupied by the interaction, or simply Space, or Ether being inclusive of the previous two states.

$$r3 = nn$$

4.4 The Fourth State is the generation of being, or existence, which is radiated from the geometric center of the site of the magnetic interaction: Light. This is also the State in which the electromagnetic interaction may be identified by quantum-mass particle-wave units, namely Photons. These wave units compound their mass into quantities called Quarks, which further compound into quantities called "protons" and "electrons," which further compound into "atoms," at which State the Mass Numbers of the Elements begin.

$$r4 = atm/ra$$

4.5 The Fifth State is the solvent, or Gaseous state, of atoms.

$$r5 = sh$$

4.6 The Sixth State is the coagulate, or Liquid state of atoms. This is the technical State of the form of matter known as Fire, which is the combustion of liquid $n1$ [Hydrogen].

$$r6 = (f)nt2$$

4.7 The Seventh State is the compact, or Solid state of atoms.

$$r7 = tn2$$

Subsection § 2 The Elements (i.e. Singular Element Chemistry)

1 The cube of N degrees of pressure will result in an **atomic mass-integer number**

$$(amn)rn = atm = n$$

in a series where $n0$ = blackbody radiation. Each small-integer ratio fractal is called an **Element**.

Small-integer ratios achieve the state of ground rest raised to $2\string^n$ degrees at certain weight-intervals called octaves, at which they are registered as "inert" or non-interactive.

Table 1.

N 1 ATM ("atom"):   1:1

differentiates into fractals of small-integer ratios by compounding nuclear pressure, where atomic nuclear pressure = N …

N 2 HELIUM: 1:2 OCTAVE

```
N 3 LITHIUM:        1:2 :: 2:1
N 4 BERYLLIUM:      1:2 :: 2:2
N 5 BORON:          1:2 :: 2:3
N 6 CARBON:         1:2 :: 2:4
N 7 NITROGEN:       1:2 :: 2:5
N 8 OXYGEN:         1:2 :: 2:6
N 9 FLUORINE:       1:2 :: 2:7
N 10 NEON:          1:2 :: 2:8 OCTAVE
N 11 SODIUM:        1:2 :: 2:8 :: 3:1
N 12 MAGNESIUM:     1:2 :: 2:8 :: 3:2
N 13 ALUMINUM:      1:2 :: 2:8 :: 3:3
N 14 SILICON:       1:2 :: 2:8 :: 3:4
N 15 PHOSPHOR.:     1:2 :: 2:8 :: 3:5
N 16 SULFUR:        1:2 :: 2:8 :: 3:6
N 17 CHLORINE:      1:2 :: 2:8 :: 3:7
N 18 ARGON:         1:2 :: 2:8 :: 3:8 OCTAVE
N 19 POTASSIUM:     1:2 :: 2:8 :: 3:8 :: 4:1
N 20 CALCIUM:       1:2 :: 2:8 :: 3:8 :: 4:2
N 21 SCANDIUM:      1:2 :: 2:8 :: 3:9 :: 4:2
N 22 TITANIUM:      1:2 :: 2:8 :: 3:10 :: 4:2
N 23 VANADIUM:      1:2 :: 2:8 :: 3:11 :: 4:2
N 24 CHROMIUM:      1:2 :: 2:8 :: 3:13 :: 4:1
N 25 MANGANES.:     1:2 :: 2:8 :: 3:13 :: 4:2
N 26 IRON:          1:2 :: 2:8 :: 3:14 :: 4:2
N 27 COBALT:        1:2 :: 2:8 :: 3:15 :: 4:2
N 28 NICKEL:        1:2 :: 2:8 :: 3:16 :: 4:2
N 29 COPPER:        1:2 :: 2:8 :: 3:18 :: 4:1
N 30 ZINC:          1:2 :: 2:8 :: 3:18 :: 4:2
    …
N 36 KRYPTON:       1:2 :: 2:8 :: 3:18 :: 4:8 OCTAVE
    …
N 45 RHODIUM:       1:2 :: 2:8 :: 3:18 :: 4:16 :: 5:1
N 46 PALLADIUM:     1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:0
N 47 SILVER:        1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:1
N 48 CADMIUM:       1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:2
N 49 INDIUM:        1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:3
N 50 TIN:           1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:4
N 51 ANTIMONY:      1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:5
N 52 TELLURIUM:     1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:6
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N 53 IODINE: 1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:7
N 54 XENON: 1:2 :: 2:8 :: 3:18 :: 4:18 :: 5:8
OCTAVE
        …
N 78 PLATINUM: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:16 ::
6:2
N 79 GOLD: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:18 ::
6:1
N 80 MERCURY: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:18 ::
6:2
N 81 THALLIUM: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:18 ::
6:3
N 82 LEAD: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:18 ::
6:4
        …
N 86 RADON: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:18 ::
6:8 OCTAVE
        …
N 103 LAWRENC.: 1:2 :: 2:8 :: 3:18 :: 4:32 :: 5:32 ::
6:9 :: 7:2

Subsection § 3 The Compound

1 The Elementary Units of Black Mass, Substance
Quantity Numbers, may be combined to create unique
units, or **compounds,** which often possess
substantive properties differing in expression from
those of their constituent units

atm , a(tm)2 … a(tm)^8

Subsection § 4 The Molecule

1 The **molecule** is the smallest unique unit that a
compound can be reduced to before it breaks down
into its constituent elementary units. In other words,
the molecule is the smallest integer ratio describing a
unique combination of elementary mass units.

Subsection § 5 The Atom

1 The **atom** is the accepted name for any Elementary Unit of Mass

$$atm = r(nn)$$

In the *Kmtu*, the term "atom," called *ATM*, is the final creation of the world, which is to mean that it is the first whole unit of which perceivable matter ("the world") is made [N.S.C. 6 § 1.14].

2 *ATM* in particular defines one complete cycle of the electromagnetic procession of forces of

$$atm = amn/r = ntr(u)$$

A cycle is considered whole only when one octave of positive force

$$octave = n2 = r(nn)$$

reciprocates its energy-substance through the equal but inverse return of a second octave

$$u = (nn)2$$

The stability of this cycle is called the "particle" state because its two equitempered halves for a perfect sphere when integrated.

3 *ATM* is the "atomic mass" of *N* where

$$t = (ma)kr(u) = gb, j = 0$$

Force-in-opposition *T* defines the magnetic field *M* as the product of two octaves moving alternatively
180° away from … = *k*
and

180° toward … = b

        … a point of unity at a harmonic mean = s.

Section § 3 Atomic Theory

Subsection § 1 The Structure of the Atom

1 This section will introduce, in more detailed terminology, the MAAT MECHANICS of Atomic structure. The progression of mass substance along a spectrum from "dark" [$n0$] to "light" [$n103$] defines the elementary composition of Nature

$$ntr(u) = atm(r)0 … atm(r)103 … atm(r)^{8+1}$$

2 The term "Particle" implies something which is elementary and generally immovable. However, we have read that black mass exists in stable quantities of N according to the state of its magnetic field M, and the parameters of movability [motion] which are determined by M are expressed in waveform.

Semantically, in our case, a **particle** is a temporal expression of a waveform.

$$p = r(m/f)$$

As such, it is misleading to consider atoms as being comprised of particles. An atom is a particle expression of varying stability,

$$atm = pt(ah/nr)$$

3 We will learn that the stability of an atom depends upon the balance and distribution of mass quantity N within the magnetic field [that is, along the pathway, i.e., operation in the direction of motion].

Subsection § 2 The Nucleus

1 In the Western Tradition, the **nucleus** is the central part of the atom, comprised of the so-called particles of magnetically-positive **protons** and magnetically-neutral **neutrons**.

2 In fact, the nucleus is the central part of the atom, and is also called the **heart**,

$$S$$

It is the mathematical mean between the positive magnetic pole of the atom, and the negative magnetic pole of the atom.

ram :: |--------|--------|
      -n S +n

We will learn how the zero-point of contraction of substance N at point S on magnetic field M generates the atomic mass expression ATM, where variable A is the kinetic factor of R giving particle expression T to waveform function MN

$$s = atm/2$$

3 An atom is formed when blackbody substance changes within the integral function SS of mr

$$mr\ SS :: sr(n1\ \dots\ n^{\wedge}8) = atm(u)$$

4 The force which changes the blackbody substance is Ra or Re.

$$(am)n0\ \dots\ (u)\ \dots\ (am)n^{\wedge}8 = r(a,e)$$

This force is described as the "Bending Force" in the *MAAT New Syllabus Law Code* because it bends the

blackbody substance *N* along the trajectory defined by the magnetic field *SM.* [N.S.C. 5 § 42-43]

5 *R* is the force which bends the substance *N* at 90° intervals relative to the mean point *S* between the two poles of *N*

$$r(m/2) = a = 90 \ldots :: kh, c = 360$$

The act of *R* upon any field *M* results in the square growth from reference-point to line, i.e., a transmission of current *A*, and the projected path, or trajectory, of *A.*

6 The natural limit to the total number of turns, or changes, of *N* by a single force *R* is 4.

$$r(m/2) = r(n) = f = 90$$

$$rm = r(nn) = (d, t)j = 180$$

$$r(mn) = r(nnn) = g = 270$$

$$r(nn)2 = c, kh = 360$$

7 The motion of integral function *R* is toroidal, where the heart is always located at the zero-point axis:

$$r \, S :: s(m/a) = 0 + e$$

and the poles lie equidistant from the heart to the North and South at *NT* degrees of magnetic field *M*, where *T* is the factor of the mass of the atom *ATM* [N.S.C. 5 § 27-28]:

$$r \, S :: |\text{--------}|\text{--------}|$$
$$\text{n} \qquad \text{n} \qquad = \text{m}$$

8 An atom exists as a unit by direct effect of sustained

motion [caused by bending force *R*] acting on a uniform substance which tends energetically toward inertia (i.e., rest).

$$atm, a(tnn) = gb, (m)tr0 \ldots (m)tr^{\wedge}8, j = 0$$

Such a unit is not immovable or fundamentally stable as the term particle would suggest. Its form and density **changes**, following the curvature of a wave over time. Therefore, from a single vantage in time, one cycle of such a motion appears as an orbit, or a sphere.

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WORKBOOK:
INSTRUCTIONS FOR MAKING THE SPHERE ON AN AXIS

1 Given a true-square (right) axis of four equal quarters, you can make a sphere by plotting every point which lies to a given radius *rN* away from origin point *MSS.*

SESH MEDU (SCRIBE THE EQUATION)

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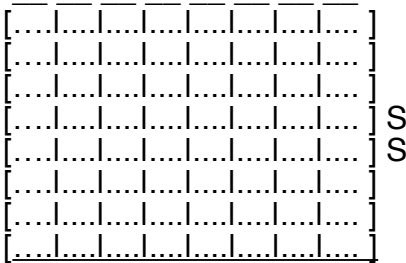
This image is called a rosy-cross, a sephirot, a cypherform, or a spherograph. Its geometry produces all numerical procession, and hence creation.

Subsection § 3 The Proton

1 The number of protons identifies the mass-number quantity-per-unit *T* of blackbody substance *N* which passes from the positive pole of the atom to the center of the atom along the trajectory of the magnetic field

$$proton = pt = t(m)(sba)$$

2 The positive magnetic state of substance *N* generates and anchors the total mass *AMN* of the atom. This is why the positive pole of the atom is found moving from North to the center along an axis, which appears sphero-graphically as the contraction of the sphere's volume toward the heart *s*

$$(at)ram = s(ba)/ka$$

3 The proton is purportedly one-third size smaller than the so-called electron particle, yet possesses 1840 times the mass of the electron. The proton is 1840 times denser than the electron because substance N is under n-square degrees of pressure

$$pt = n2tr$$

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WORKBOOK:
INSTRUCTIONS FOR MAKING AN AXIS
TO PLOT THE FOLLOWING

1 Due to the inherent motion of the atom, the blackbody substance *MN* passes through the positive pole of the magnetic field, or, makes an arc in one quadrant of a field. The North-Center motion contracts

the "inert" substance N into the measurable state of quantity $AMN.$

2 The act of contraction of the AMN quantity within the heart ST correlates to an increase in density which increases energetic frequency under pressure and gives **weight** w, where

$$s(ma)t = w = r(n0) \ldots (n^8)$$

to the expression of the waveform [called "particle" proton].

3 The weight correlates to the quantity

$$amnt = s(ma)t + n$$

The substance is maximally contracted in the heart, i.e., the center of the axis-field; therefore the mass of the atom is found in the center, and is determined by the mass number N of protons.

4 Due to the generative, contractive nature of blackbody substance in this state, it is said to have a positive electrical charge.

5 The lines of force SR of the positive electrical charge extend straight out from the heart in all directions, causing the **centrifugal force** and the radiation of light matter.

6 That which the West calls the positive system "particle" proton, the Ancestors call the force

$$B$$

7 B is the "preponderantly charging [revolving], contracting, decreasing volume, increasing potential, increasing density, integrating [attracting], generating,

heating" state of the force R. [N.S.C. 4 § 9.WR9]

8 Given the magnetic field M of N, the space-time site of B [the volume-expression of substance N in the contracted state of the positive electrostatic charge] is G :

$$Gb = r(am/nt)$$

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Subsection § 4 The Electron

1 The number of electrons identifies the mass-number quantity-per-unit T of blackbody substance N which passes from the center of the atom to the negative pole of the atom along the trajectory of the magnetic field

$$\text{electrons} = -n = bka(u)/amn(t)$$

2 The negative magnetic state of substance N radiates the mass of the heart S 90° away from B.

$$b\ SS :: [sr(-n+n) = 90 \ldots sr(-n+n)^8 = 360] = k$$

This discharging motion $-N$ away from S returns the total mass AMN of the atom back toward the positive pole along a trajectory moving inversely, or 180° away from, the direction of positive motion B.

The negative pole of the atom is found moving from the center to the South along an axis,

$$r(-n) = st(k)$$

3 Western science estimates the so-called particle electron to be three times larger than the proton but 1840 times less dense than the proton.

4 Ultimately, there are no electrons, nor are there any protons. There is only one substance (uniform, non-perceivable substance, to be sure)

$$tn2(mr) = rem(f)(k)$$

6 While the positive field *B* flows from North to the heart *S* and contracts, the negative field [called "the electron cloud"] *K* expands from the center, out through the South pole, and around the heart

$$k\ SS :: -n(sba) = k, (uu)sr \ldots n^{w8}$$

The negative field encloses the area of volume created by the contraction of mass-substance toward the mean of two poles.

7 The principle of **Reciprocity** (*the principle of reflection, doubles, squares, means, or, simply, Harmony*) states that

$$N\ (north) : S\ (south) :: 2 : 1$$

where *NS* are united in the Middle [the contract of the heart, i.e., love], and they will alternate the transmission of current in harmonic cycles.

The negative field [perimeter] of the sphere expresses the form, or material substance, of the *ATM*, while the positive field [center, core, heart] of the sphere expresses the weight, or mean, of the *ATM*

$$atm(n) = sb(a) \ldots pt(ah)$$

$$atm(-n) = kh(a) \ldots ws(r)$$

9 Due to the radiating, discharging nature of blackbody substance in the state of expansion, it is

said to have a negative electrical charge.

10 The lines of force *R* of the negative electrical charge condense straight into the atom from all directions, causing the **centripetal force**.

11 That which the West calls the negative system particle "electron", the Ancestors call the force

$$K$$

12 *K* is the "preponderantly discharging [rotating], expanding, increasing volume, decreasing density, decreasing potential, disintegrating [repelling], radiating, cooling" state of the force *R.* [N.S.C. 4 § 9.WR10]

13 Given the magnetic field *M* of *N*, the space-time site

$$km(-e)2 = nt$$

$$t = gb(kpr)$$

$$nt/gb = k$$

14 *K* is also called the maximal expansion [growth *UU*] of the heart *S* where the zero-point/mean of *MN* equals *A* over a period of one electromagnetic cycle *R.*

$$k = (uu)sar$$

15 Comparisons between the *Ka* and the *Ba* will illuminate why things are colder on the outside than they are on the inside, why a combusting sea of hydrogen would pull to its shores stardust and debris, and why the Ancestors weighed the heart of the Deceased against the *Ka* and *Ba* in the Tuat at

Judgement.

Section § 4 Electrical Charges

Subsection § 1 The Law of Electrical Charges

3 The charge of the poles =
B (north) = positive electrostatic charge
K (south) = negative electrostatic charge.

Electrostatic means that the magnetic polarity of the respective poles do not change. The direction of motion from North to Center is **positive** [i.e., generative],
The direction of motion from South to Perimeter is **negative** [i.e., radiative].

$$se(n) = b$$

$$se(-n) = k$$

4 The positive electrostatic charge MN produces the centrifugal electrostatic field. This means that a positively-charged substance which makes contact with this magnetic field will be repelled away from the magnetic field.

5 The negative electrostatic charge produces the centripetal electrostatic field. This means that a negatively-charged substance which makes contact with this magnetic field will be contracted into the heart.

6 The Western Tradition says that like charges repel each other and unlike charges attract each other. This is true only in the sense that two atomic nuclei are highly unlikely to interact without the aid of pressure, while the electrical discharge of those nuclei is highly

likely to be conducted between the magnetic fields of the two atoms depending on their respective stability.

Subsection § 2 Atomic Charges

1 Above we learned how the degree to which an atom will interact with another atom depends on its **stability**.

$$stability = w8(sr)/ab(t2)j$$

where

$$ab = (mr(n2)f)-ka$$

If an atom is **stable** then it will not seek to engage in the transmission of its energetic mass [free electron transfer]. If an atom is unstable, it will incline to engage in the transmission of its energetic mass.

2 The factor which determines whether an atom is stable or not is the ratio of radiation to generation, or, the quantity of substance bearing a positive charge versus the quantity of substance bearing a negative charge.

3 The stability of an atom determines whether it will express a magnetically negative or magnetically positive charge [state]. If an atom is stable, then it bears a neutral state of being;

$$at(-n+n)(gb)/r(kmn) = n^8 = 0, rest$$

i.e., a stable atom expresses the same quantity of negative charge as it does positive charge, and the two charges are thus brought to rest.

4 Let us recall that an atom is actually made of blackbody substance quantity

$$at(m) = r(n2)f$$

The gross quantity of substance *N* does not, of its own will, change within the electromagnetic parameters of a given *ATM.*

5 An atom *ATM* always bears a gross mass *M* proportional to the square of *N*, and if *N:N* is a balanced ratio of positive-to-negative expression then the *ATM* is at rest [at peace].

6 What does change the expression of the atom *ATM* from net-neutral to net-positive or net-negative is an **imbalance** in the ratio of the positive-to-negative expression of substance quantity *N.*

$$a(n : n = 1t(nn)) = 0 \ldots a(n2 : n = 2t) \ldots a(n3 : n4 = 7t)$$
$$\ldots a(n9 : n9 = 1t(m)2)$$

7 The force *R* of magnetic parameter *M* which is responsible for pressurizing substance quantity *N* operates with 90 degrees of natural leeway proportional to *M.*

$$G(r) = ((-n+n)-(3/4)m)f$$

This leeway allows the respective positive force *+N* and negative force *-N* of the atom to trade priority over the expression *W^8* of the magnetic field of *ATM*

$$w8(-r) = atm(-n) , w8(r) = atm(n)$$

9 An **ion** is an atom bearing either a net-positive or net-negative charge.

The transmission of energy within any system demands that the atomic units thereof be **ionized**.

Stable atoms do not seek to engage in the transfer of free electrons [energy]. Only atoms in an **unbalanced magnetic state** are inclined to participate in the reciprocal exchange of energy within a system. For this reason, in a blackbody substance at rest

n(-tr) = 0, r = (n2) … where the limit *SS* of r(n) = w8

10 A **vibration** is a vibrant ion, i.e., an atom *ATM* bearing a positive or negative charge, hence either generating, degenerating, or stabilizing mass according to the curvature of a double-octave wave function i.e. sphere.

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WORKBOOK:
INSTRUCTIONS FOR UNDERSTANDING NATURAL ECONOMY

1 Nature operates in a similar manner to a traditional Western economy. The "god particle" or "god **principle**" is the principle, constant, or source, of all value circulating within the economic system.

2 The god principle of Nature is the blackbody substance *AMN,* or simply *N*. The magnetic field *M* of a blackbody will **charge** the principle *N* to the axis *TM*, effecting the transfer of value from *AMN* to *ATM*. Where the value *N* is in a state of transmission, the value *MN* is the **capital**. As per Marxist Economic Theory, capital is [mass] value that grows as a result of the process of circulation [i.e., the act of transmission through a magnetic field].

3 The magnetic capital "funds" the generation of the **gross** atomic mass *ATM* from the principle *AMN*.

4 The positive charge of the atom is the "gain" of

mass, and the negative charge of the atom is the "loss" of mass. When the loss and gain are equal, then the principle value accrues no energetic interest and remains stable.

5 The **net** mass value of *ATM* is its gross mass after it has charged or been charged by all relative bodies.

6 The loss of an atom may appear greater than its gain because the force of its magnetic field inclines toward expansion. In this case, the principle value of the atom accrues a debt to any relative mass in a state of gain. Hence, the atom nets a negative charge.

7 The gain of an atom may appear greater than its loss because the force of its magnetic field inclines toward contraction. In this case, the principle value of the atom accrues credit which it may then charge to any relative mass in a state of loss or gain. Hence, the atom nets a positive charge.

(CONT.)

1 Economy exists because a system exists in which bodies of differing potential harmoniously exchange their masses from the positive pole of a "battery" to the negative pole of the "battery". The **battery** is the system of free mass exchange conducted by the interaction of any number of bodies.

2 In a battery, bodies act just like particle-units of mass substance operating through the magnetic field of an atom. The bodies posses charge depending on their orientation to the heart of the magnetic field.

3 One body can charge any other body if they position themselves in a positive-to-negative spatial orientation relative to the heart, and they conduct the

high-potential mass of the positive body to the other. This act is called the **exchange**, and the amount of mass exchanged per electromagnetic cycle [timeframe] is the **rate *F*.** The likelihood of exchange is increased by close, rhythmic contact [friction].

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Subsection § 3 Charged Materials

1 The atomic composition of any material will determine:
        whether or not it will be stable,
        i.e., whether or not it will engage in the exchange of free mass in the transmission of energy.

If the atoms which make up a material sustain either a loss -*N* or gain +*N* of mass substance [i.e., loses or gains electrons], then that material will assume either a net-negative or net-positive charge.

2 We have learned that due to a difference in potential between the positive and negative forces of the atom, the nuclear contractive force *S* occupies the zero-point of the centripetal magnetic force. This means that mass substance which travels 180° toward and passes through this magnetic heart will not engage in free interaction with other bodies.

$$\text{at(m)} \; SS : |\text{--------}|\text{--------}|$$
$$\qquad\qquad \text{-n} \quad\; \text{++} \quad\; \text{+n}$$

3 Inversely, mass substance which is traveling 180° away from and bends around the perimeter of the wave-field generated by the mass of the heart will likely engage in free interaction with other bodies— depending, furthermore, on the potential of the positive pole.

5 Mass which lies on the perimeter of the centrifugal force [i.e., electron(s) which lie on the surface] is easily freed from the centripetal force of the atom. Such mass may engage in free interaction [exchange] between relative bodies—but only if the opposing body possess an equal and inverse difference in potential.

6 In the Western tradition, when an instrument measures "more electrons than protons" in an atom [i.e., an ion netting negative charge] it means that the atom is operating at a lower-than-neutral energy state of low-density/ high-volume where the strong force S does not maintain a 2:1 expression of K to B, and is expressing its mass-substance as matter.

7 In the Western tradition, when an instrument measures "more protons than electrons" in an atom, i.e., an ion netting positive charge, it means that the atom is operating at a higher-than-neutral-energy state of high-density/ low-volume and is expressing its mass-substance as power-energy.

8 Mass in the positive state of high energy acts as the magnetic heart S to any other mass(es) oriented in near relative proximity to it – especially if the relative mass is traveling along a similar trajectory and lies within a similar octave pressure zone.

9 Inversely, mass in the negative state of low energy acts as the material which is attracted and held within the magnetic field of the heart by the relatively-strong centripetal force [called "gravity"] of the total electromagnetic field.

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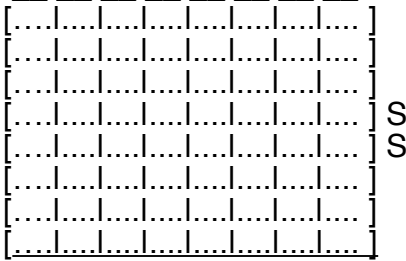
13 That which receives the transmission of energy in the form of mass-substance from a body of higher potential is the *Ka.* The *Ka* receives the positive transmission of energy from the *Ba*. The energy-in-transmission *Ra* bends along a trajectory defined by the difference in potential between the engaged bodies [i.e., the terms of the contract]. The energy force *RA* simultaneously effects a complementary force of equal and inverse magnitude operating at 180° to the positive direction of *RA*, creating the oppositional force which unifies two halves of a cycle.

Subsection § 4 Charging by Contact

1 An ionized substance [charged material] can charge another substance by making **contact** with it. This contact is a mild form of friction because it involves contact and motion, albeit at a singular rate.

Subsection § 5 Charging by Induction

1 An ionized substance can charge another substance without making direct contact with it. The attraction of negative material-mass to positive mass-energy centers, and the repulsion of positive mass-energy centers from each other, influences how the magnetic field of a charged material will affect the magnetic field of another. This effect is called

induction, meaning to induce a change of magnetic state without friction.

2 Example: If a negatively-charged rubber rod is brought toward [the magnetic field of] one end of a neutral aluminum rod, without touching the body of the aluminum itself, the rate of positive mass-energy will increase and force the negative surface mass of the aluminum to the opposite end. If the charged rod, however, is removed from the affected field of relativity then the charge of the aluminum rod will redistribute throughout the material until it reaches the neutral resting state.

3 An originally neutral material (such as aluminum) which has been charged by the induction of an ionic material (such as rubber) can remain charged even after the inducting material is removed from relativity by draining the negative surface mass from the negative pole of the material. This is done by making contact with a ground. A **ground** is a conductor of free mass [electrons] through the lowest pressure zone. The finger of your body can act as the ground to a material charged by induction.

Subsection § 6 Neutralizing a Charge

1 Materials which net differing charges possess a correlative degree of **difference of potential**. The act of charging is temporal and conditioned by orientation to the positive energetic pole; and materials only sustain their charge in isolation. Of course, in a system, no material is operating in isolation, and so materials are always charging, discharging, and recharging according to their location along the arc of their electromagnetic wave.

3 A high-potential [pressurized] positive material, when brought into relative contact with a low-potential

negative material, and given an optimal trajectory of magnetic conduction, will discharge its accumulated free mass into the negative material until both materials are relatively neutral. The space between the two differing materials is the **gap**. The transmission of free mass [electrons] across the gap and along the optimal magnetic trajectory is called the **arc.** The arc is due to the force of positive-to-negative attraction, i.e., the degree of difference of potential.

Subsection § 7 Attraction and Repulsion

2 A proton is substance N passing through the north pole B toward zero-point *S* of its own electromagnetic field. Hence, the substance in this state [called "proton"] will not seek to engage in contact with another likewise oriented substance, and the centrifugal forces of the two positive substances will repel each other.

$$\text{proton: (SBA/TM)R}$$

3 An electron is simply substance N passing around the perimeter K generated by the pressure of the magnetic field *MN*.

$$\text{electron} = \text{(KMN)R/2, … S}$$

The substance in this state [called "electron"] can be easily freed from its bond *S*. Such substance may thence be conducted between bodies according to the strength of relative forces *S*. Since free mass seeks to engage in the transfer of energy based on orientation to *S*, it is not magnetically attracted to other negative mass, and therefore they appear to "repel" each other.

4 The fundamental law of "attraction and repulsion" is that substance *N* of a magnetic state *M* seeks to

contract the volume of blackbody mass into positive energy at optimal point *S*. It does so by charging and discharging 90°-bending force *R* between pole *B* and pole *K* along the arc of current *A*, thereby generating a correlative rate of mass growth *U*. All mass in a state of motion is moving toward the strongest force of *S* relative to the arc force *R* of its transmission-current *A*. The ultimate objective of this exercise is **growth** in a series of progressive powers of *U*.

Subsection § 8 Electrostatic Fields

1 The forces of "attraction and repulsion," as we learned above, are the polar and complementary results of the nature of mass-substance to travel toward magnetic centers *MS*. The path which mass takes toward or away from the magnetic center *S* depending on the orientation and direction of motion of substance through the field is called the **electrostatic lines of force**.

2 Western tradition attributes the law of electrostatic charges to **Coulomb** who said, "the force of electrostatic attraction or repulsion is directly proportional to the product of the two charges and inversely proportional to the square of the distance between them."

Section § 5 Electron Theory

Subsection § 1 Electron Orbits

1 We have learned that the atom is a spherical unit bearing two oppositely charged poles, the central positive pole *B* and the perimeter negative pole *K*. The uniform substance of the atom expresses positive and negative charge alternatively as it passes through the two poles of the atom in the toroidal motion. At any point in the cycle of substance through the

toroidosphere [magnetic field] of the atom, the substance is always traveling either 180° toward or away from the axis of the centrifugal and centripetal forces, the zero-point *S*.

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WORKBOOK:
INSTRUCTIONS FOR PLOTTING
THE TOROIDOSPHERE ON THE SPHEROGRAPH

1 Given the pressurization of substance *N* within the magnetic field *M* by a force *R*, *N* travels 90° toward the point of maximal contraction *S*. The expression of *N* traveling 90° toward *S* is the positive state *B*.

2 The force of depressurization [energetic discharge] occurs as an equal and opposite result of the maximal pressurization of *NM* at *S*. After *N* passes *S*, the force *R* bends *N* 90° away from *S*. The resulting spherographical image looks like two equal 180° arcs moving in opposite directions of each other, and meeting at 90° on the center-point of a common axis. This means that 90° of positive force *B* generates energy from substance, and 90° of positive force *B* discharges that energy as mass-in-orbit.

SESH MEDU (SCRIBE THE SYSTEM)

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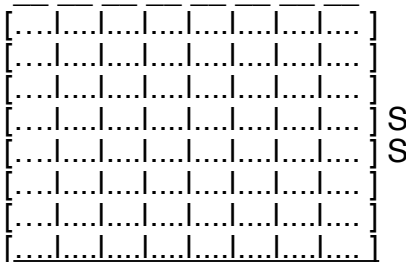
3 This image describes the contraction of a field *M*

equal to double the length [quantity *N*] of one arc. The contraction of the magnetic field *M* of substance quantity *N* at point *S* induces a process that will square the volume of the original field *M* and give growth to principle substance *N.*

4 0°/360° of the sphereograph *MN* contracts into two 90° forces moving toward unity, generating pressure in the positive state. After achieving unity at *S,* the force *R* discharges the pressure of *S* in a 90° arc toward 180° of 0°. These positive 180° arcs express the high pressure-to-volume ratio of substance *N.*

5 The two 180° arcs of the positive state *B* must each reciprocate the energy of their own momentum (2)*R* by completing a complementary 180° arc moving toward 0°/180°. The expression of *N* traveling 180° toward 0°/180° is the negative state *K.*

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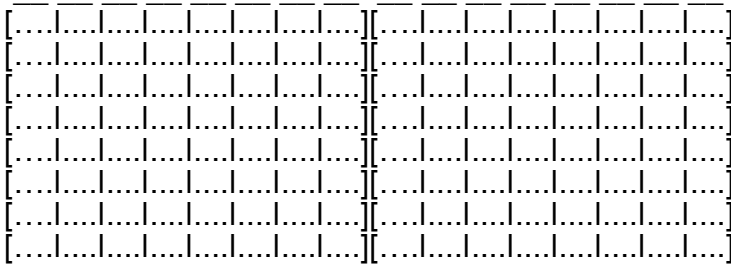
2 It was necessary to reiterate the alternating force of *K* and *B* because the topic which the Western tradition calls "electron theory" demands that we conceptualize the field in which "electrons orbit their nucleus".

3 When we say that the electron orbits a nucleus we mean that the substance *N* is moving 180° in opposition to the nuclear point *S,* along the "negative"

arc *K*. This means that the substance *N* circulating through the field *KM* is expressing a higher volume-to-pressure ratio.

4 When the substance of the atom lies in the field *KM* of *ATM* (i.e., when substance *N* in the "negative" state lies on the surface of the spherograph) then the centripetal force of the magnetic center *S* cannot exert as strong a force on the atomic substance, and therefore the substance in this state may be easily freed from the bond of its nucleus *S*.

5 If force is applied to an atom which expresses a higher ratio of substance in the negative state *KM* than in the positive state then that atom will absorb energy which will excite the substance which lies on its surface, and that substance will become free. Its mass will be transmitted between atomic bodies according to the operating relative forces.

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Subsection § 2 Orbital Shells

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1 In the spherographic model, the *KM* field of the atom can be expressed as having a number of concentric layers, or orbital shells, between which the negatively-charged substance *N* is distributed at any given time in the electromagnetic cycle. The perimeter of the nearest of these shells would lie on the edge of the positive field *B* [which equals an area of 2*180°].

$$km = (nt)/(gb) + (nt)/(gb)^2 + (nt)/(gb)^3 + \ldots \text{ [limit C of } km = (nt)/(gb)^8]$$

2 After traveling 90° toward point *S,* substance *N* discharges away from point *S* at 90°, and after 180° substance *N* enters the first of several progressive "shells" of the negative field *KM*.

$$\text{kmn1 } S = (-n90+n90)r2$$

3 The number of shells of the atom depends on the quantity of *N*. There is a maximum of 7 shells. These shells define how "close" negatively-charged substance *N* is to the point of maximum [zero-point] contraction *S*.

4 The nearer substance is to the point *S*, the stronger the pressurizing force of unity, and the higher the ratio of mass-energy to mass-materiality. Therefore, the shells which are "closer" to *S* are more positively affected by the generative centripetal force of contraction, and therefore contain a "smaller number of electrons."

5 As substance circulates through the higher levels of the negative field *KM* it moves away from point *S* causing the force of unity becomes weaker.

$$km(+n) = S(-n)$$

As unity weakens, polarity increases, and the shells of *KM* express increasing ratios of mass-materiality to mass-energy—as if the mass were cooling into different levels of earth as it boiled up from its core.

6 In atoms: (1) the density of each shell deceases,
(2) the volume of each shell increases, and
(3) the quantity of substance *N* distributed between them progresses by powers of 2 as they move farther away from the center *S*.
ERGO: the shells which are farther away from *S* are more negatively affected by the centrifugal force of energetic discharge, and therefore contain a "larger number of electrons."

Subsection § 3 The Elements and their Atomic Shells

1 See Table 1 for the quantity of mass-substance circulating through the negative field *KM*, i.e., the number of electrons per orbital shell.

2 The Table lists the number of electrons per orbital shell in the form of a ratio where the first integer is the shell number and the second integer is the number of electrons which circulate through that shell. For example,

$$\text{“Oxygen”, } n8 = km(1{:}2 :: 2{:}6)$$

meaning that the negative *KM* field of Oxygen is two layers thick, the first having a substantive distribution of 2:8 and the second having a distribution of 6:8.

3 It can be seen from the example above that the number of electrons distributed across each shell add up to the atomic mass number

$$km(n) = atm(r)/gb$$

This shows that the atomic mass which is measured in the positive contractive state of the nucleus is quantitatively the same substance as the discharged mass [the "matter"] which is measured in the negative state of expansion [the volume of the atomic "body"].

$$S(+rnf)gb = S(-rnf)kmt$$

4 In other words, the atom as a unit bears weight as a result of its positive centripetal force A\GB(R) and expresses a correlative volume as a result of its negative centrifugal force KM(T).

5 The quantitative substance *N* changes its magnetic

expression as it circulates from negative to positive pole according to force *MR*. In other words, the quantity of substance *N* concentrated in the positive magnetic field *SBA* equals the amount of substance distributed throughout the volume/area [among the orbital shells] of the negative field *KM*.

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WORKBOOK:
INTRUCTIONS FOR KNOWING THE BODY

1 At this stage of electron theory, it will be necessary to know the language of the "body." The **body** is the magnetic field *M* of any electric transmission *RE* of substance *N*. Hence every body is an atom and every atom is a body. The body possesses being as such solely based upon the contraction of its substance into its own heart *S* through rhythmic cycles.

2 The center-heart-site *S* where the substance of the body achieves the maximal/zero-point of contraction [i.e., unity] is called

SBA

and is the site of the *Ba*, the spirit or life-force of the body.

3 The volume between the *SBA* and the perimeter of the body's magnetic field, through which the substance of the body achieves the maximal point of expansion exactly 180° away from *S*, is called

KM-TM

and is the site of the *Ka*, the soul or consciousness of the body.

4 The *K* is also called the "raised high-land" because it grows [squares] the area of *SBA* to increasing degrees of power by the force of discharge. For this reason, the *K* is also the purely physical material expression of mass-substance, or, the very flesh of the body. [N.S.C. 6 § O.6-9]

5 The *SBA* is also called the "star" or "inner chamber" because it is the forced contraction of flat mass [space] to generate squared mass [light]. For this reason, the *B* is also the purely energetic expression of mass-substance, or, the very life-sustaining spirit of the body.

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Subsection § 4 Shell Capacity

1 Table 1 illustrates what has been said before regarding the capacity of each level of the negative *KM* field to circulate free mass [electrons]. Shell 1, closest to the nucleus, cannot circulate more than 2 electrons during a single electromagnetic time-fame. Shell 2 cannot circulate more than 8 electrons. Shell 3 cannot circulate more than 18 electrons. Shell 4, farthest from the nucleus, can circulate up to 32 electrons.

Subsection § 5 The Outer (Valence) Shell

1 We have learned that the *KM* of the atom is a negative magnetic field which surrounds the positive nuclear field *SBA* where substance *N* expresses mass-weight in contraction. The volume of the *KM* field is the cube volume of *SBA* :

$$(SBA)^3 = KM(HT)$$

2 The substance circulating through the inner layers

of the *KM* field is more strongly bound to the nucleus *SBA* by positive centripetal force, while the substance circulating through the outermost layer can be easily affected by outside force.

3 The outermost layer of the *KM* field is the surface of the atom, and this layer is called the **valence** shell.

4 Every motive unit of substance *N* circulates from the center to the perimeter, from the nucleus to the valence shell, and back in a cycle. When substance is circulating upon the valence shell then it is most likely to be freed from the atom's magnetic bond.

5 Table 1 illustrates the way in which substance *N* is distributed throughout the layers of the *KM* field based upon a principle of fractals. The numerical sets which describe the atomic *KM* field levels increase atomic volume by generating fractal sets of *N* in small-integer ratios, much like the progression of musical harmonies.

6 The quantity *N* which is discharged from the center *SBA* becomes distributed through the progressively voluminous *KM* shells based on progressive powers of 2. Each shell increases its capacity to circulate the quantity of substance by added powers of 2 as a result of the decrease in the force of centripetal magnetic attraction. However, only the valence [perimeter] shell of the atom will bear such a weak force of attraction that it will be able to transmit or receive mass-energy.

7 Given the above, the valence [perimeter] shell of an atom will bear no more than 8 electrons, called **valence electrons** HTP where
      H = magnetic field horizon equal to -N+N=M ;
      T = mass pressurized by operative magnetic polarity MR ;

P = particle expression emitted from ATM force
R2
         implicating

the limit C *SSS* of Km(n0) … km(n7) = km^(htp : 8)

An atom cannot have more than 8 electrons in its valence shell because if that were the case then the distribution of mass across the two poles of its magnetic field would be unsustainable; the rate of discharge of quantitative substance *N* would dissolve the contractive bond of the atom's nucleus. For this reason, an atom with 8 valence electrons possesses a perfectly balanced distribution of magnetic force per unit of substance, and is therefore magnetically stable.

8 The number 8 is also significant because it defines the valence shell of the atom as a **cube** bearing 8 vertices located equidistant from one another along the surface-nodes of the atomic sphere. This means that the "sphere" of a stable atom's centripetal magnetic field affects substance from *SBA* to the second-to-last level of *KM*. The last level of *KM* will seek to obtain a cubic geometry by filling 8 vertices with mass, but only that quantity will enable the atom to reach the state of magnetic stability, i.e., rest, in which it neither loses nor gains free mass.

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WORKBOOK:
INSTRUCTIONS FOR KNOWING AND
UNDERSTANDING THE CUBE

1 Cubic geometry is an important element in knowing and understanding the *AMN* matrix, and a useful component to visualizing the space-time continuum. [N.S.C. 5 § 24-26]. Where the field of substance *N* at

magnetic rest is an infinite uniform matrix [blackbody space], the atom is the fourth power of growth U/2 of a single reference line-segment *R*.

SESH MEDU (SCRIBE THE SYSTEM)
Using the Below Instruction #2

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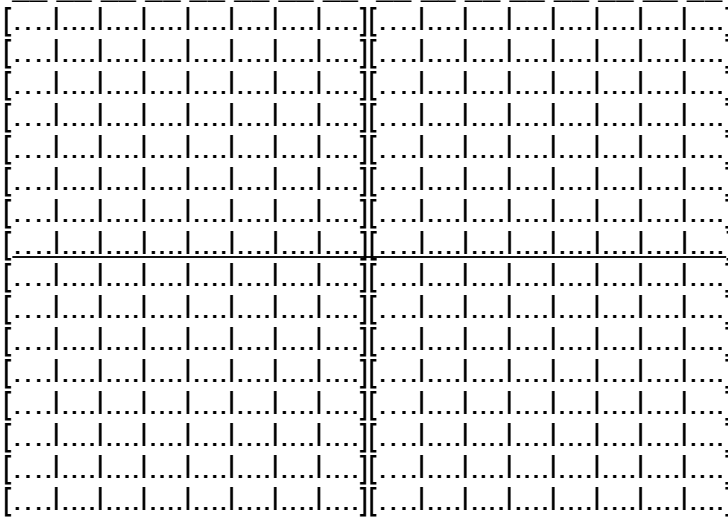
2 90°-bending force *R* squares the line segment *N* from rest toward maximum energy by contracting the distance between the 2xPoles of the line-segment and thereby increasing pressure at the mean-point of polar unification *S*. Releasing this pressure doubles the 2x90° fields affected by discharged force-in-opposition to 2x180°. Another 2x180° is necessary to return the two forces-in-opposition to their mean-line of unification, whereupon the force *R* will recycle the substance *N* through the 2x360° field. The limit of centripetal-centrifugal magnetism expressed by the 2x360° fields lies within a double-octave sphere 720:360, which sphere includes up to the second-to-last level of *KM*. The limit of the *KM* [i.e., valence shell] lies on the cube of the sphere 720:360.

3 A full and balanced cube protects the sphere from losing or gaining free mass. A sphere without a cube easily conducts the exchange of free mass [energy]. When a sphere is in its cube then it is at rest and will not incline to change the energetic expression of its substance. Therefore the cube is often identified with the variable *H* and is called the "house."

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Subsection § 6 Electron Energy

1 Within the *KM*, the further that mass-substance circulates away from the nucleus, the closer it circulates toward the valence shell, the more energy-in-opposition it has. The closer that mass circulates to the nucleus, the less energy-in-opposition it has due to its conditioning by the positive [centripetal] magnetic force which contracts mass and energy into unity at the heart-center *SBA*.

2 When outside energy amplifies the centrifugal force exerted by the nucleus of an atom, then the *KM* substance of that atom will resonate into higher orbital shells, i.e., higher levels of energy-in-opposition. When enough outside energy is applied to a valence electron, then that electron will move out of the atom.

3 Every system seeks to attain **stability** operation J of *SS*, even as the magnetic expression of substance *N* tends toward rest [inertia]:

operation r of ss = 0 = (t2)j, where j = (atm)-(r/kmn^8)

All atoms ultimately seek the state of rest in which the circulation of mass-substance is perfectly balanced by its magnetic force without being inclined to lose or gain mass as a result of applied outside energy. In

order to attain this state, the *KA* of the atom must be full and balanced.

Subsection § 7 Producing Electricity

1 When a quantity of "valence electrons move out of their atom" then that quantity of mass-substance has been freed from its magnetic bond. **Electricity** is the transmission of free mass through and between a system of magnetic fields.

2 When dealing with the amount of applied energy necessary to free mass from a substance, one must consider the quantity of its perimeter mass [valence electrons], or the *KMN*, which lies between 1-8. The lower the *KMN,* the more applied energy is distributed per electron. The higher the *KMN*, the less applied energy is distributed per electron. Valence electrons share any energy applied to them.

3 All systems [bodies] exchange mass toward the end of their own stability according to the order of the magnitude of respective charges.

Subsection § 8 Conductors

1 In a substance where *KMN* = 1 or 2, that substance is called a **conductor**. Energy applied to such a substance will be distributed to relatively few electrons, and those electrons will be strongly affected by an increase in resonance. Such a substance will easily relinquish their few *KMN* to transmit free mass [energy].

2 Unstable atoms, where *KMN* < 4 [less than half filled], tend toward stability. These conductors seek to release their free mass in order to empty their under-filled valence shell. Such substances are highly prone to producing electricity.

3 The best conductors have a single valence electron: *n*29 [copper: *kmn*4:1], *n*47 [silver: *kmn*5:1], and *n*79 [gold: *kmn*6:1].

Subsection § 9 Insulators

1 In a substance where $KMN = 8$, that substance is considered **inert** because it contains the maximum number of valence electrons that a substance can have without beginning a new shell. If electricity is produced by the transmission of free mass between the valence shells of substances of differing potential, then a substance with a fully stable valence shell cannot conduct the exchange of energy.

2 In a substance where $KMN = 6$ or 7, that substance is called an **insulator**. Energy applied to such a substance will be distributed across a relatively large number of valence electrons, and that substance will strongly resist an increase in resonance.

3 Unstable atoms where $KMN < 8$ tend toward stability. These insulators seek to receive free mass in order to fill their valence shells to $KMN = 8$. Such substances, far from being prone to free their own mass to produce electricity, actually oppose the production of electricity by absorbing any free mass in their vicinity. The best insulators are those where $KMN = 7$.

Subsection § 10 Semiconductors

1 A substance where $KMN = 4$ is called a **semiconductor** because it can conduct electricity better than insulators, but not as well as conductors.

2 The best semiconductors are *n*6 [carbon: *kmn*2:4], *n*14 [silicon: *kmn*3:4], *n*32 [germanium: *kmn*4:4], *n*50

[tin: *kmn*5:4], and *n*82 [lead: *kmn*6:4].

MMEMR cont. (II) – BATTERY

Subsection § 11 Atomic Bonds

1 Here we will begin to speak upon the standards of good conduct and basic contracts between two or more bodies [engaged in a state of **battery**] [N.S.C. 2].

2 A **bond** is a **contract** between two or more bodies to share free mass in order to achieve a mutual state of stability. Any body which has a *KMN* of less than 8 will seek to engage in bonds which will satisfy the capacity of their valence shell and thereby bring about rest. In other words, a bond is the expression of the heart's desire [centripetal force of attraction] to fill its *KMN* to achieve a state of rest, or balance.

3 We learned before how the Elementary Mass Units *n*1-103 do not possess stable *KMN* levels in most cases. Therefore, most elements seek to engage in bonds with similar elements wherein the *KMN* levels of all elements thus engaged are satisfied as a result of the mutual exchange of each element's free mass. In such bonds, the elements "contract" their free mass to one another in such a way that the valence electron which satisfies their *KMN* also circulates through the *KMN* of all other bodies under contract.

4 Elements of the same type *N* thus engaged in mutually stabilizing contracts are called unique units, or molecules, and it is the properties of these more stable molecules which will define the substantive property of their material.

5 Example: The first *KM* level of *N* bears a capacity of 2 mass units [electrons]. Two atoms where *N*=1 each

have a single mass unit in their first and only *KMN* shell, and each seeks to fill their *KMN* to the limit of 2. Therefore, these two atoms of *n*1 can contract their single free mass unit to each other's heart so that each atom now conducts a stable quantity of 2 mass units through the *KMN* of their bodies. Such a case, in which an electron pair is being shared between two or more bodies, is called a **covalent bond**, and the resulting substance is the molecule of *n*1.

6 Example: Two atoms where *N*=17 each have 7 mass units in their *KMN* shell, and each seeks to fill their *KMN* to the limit of 8. Therefore these two atoms of *n*17 can each contract one mass unit to be shared as a pair between their hearts so that each atom now conducts a stable quantity of 8 mass units through the *KMN* of their bodies.

7 The number of elementary atoms of *N* which are needed to engage in a covalent bond depends upon the *KMN* of the element. If the *KMN* of the element is 6 [as in *n*8], then 3 elementary units are needed to form 2 electron pairs in order for each of the 3 elementary units to achieve a mutual state of stability, i.e., a state of lawful battery.

Subsection § 12 Covalent Bonds

1 The molecular structure, or geometry, that a group of bodies will assume under contract depends upon the number of bodies, and by extension their *KMN* levels. Atoms with low *KMN* levels need to contract more elementary units in order to fill all of their *KMN* shells, and therefore assume "complex" geometries in order to achieve stability.

2 A semiconductor where *KMN*=4 is considered to have relatively low *KMN* levels and thus relatively high instability. Due to this high instability, a single

such atom must contract four electron pairs from four surrounding elementary units into its own heart in order to achieve a stable *KMN* level of 8. However, the resulting bond stabilizes only the 1 central unit out of the 5 elementary units necessary to form it. This arrangement is not exactly a molecule because the surrounding four elementary units are not stable, but this geometry is the fractal expression of stability which the bond has the potential to increase by contracting identical bonds to its unstable elements. The continuation of such a bond according to the geometry determined by the *KMN* of the elements involved is called a **crystal lattice**.

Subsection § 13 Electrovalent Bonds

1 Elements of different type *N* which engage in mutually stabilizing contracts are called inter-molecular units, or **compounds**.

2 Compounds can be formed by covalent electron pairing, such as the case with *n*8 and *n*1 [oxygen and hydrogen]. Because *n*8*kmn*6 needs 2 electrons in order to achieve stability, and *n*1*kmn*1 needs 1 electron in order to achieve stability, two atoms of *n*1 can each contract an electron pair with *n*8, and all three elements thus contracted will fill their *KMN* levels to maximum stability. This compound is called *n*8*kmn*6*n*1*n*1, Water.

3 Compounds can also be formed by **electrovalent** bonding, or **ionic** bonding, in which electrons are not shared between the hearts of two differing elements, but rather one atom gives up all of its valence electrons [becoming a positive ion] to be received by another atom [becoming a negative ion], which two ions then bond by magnetic attraction.

4 Example: *n*11*kmn*1 is inclined to free its single

valence electron, and *n*17*kmn*7 needs only a single valence electron to stabilize its *KMN* level. Therefore, when these two elements are brought close to one another, they will contract an electrovalent bond.

Subsection § 14 Metallic Bonds

1 A **metal** is an ideal conductor of the lowest possible *KMN* level: only 1 (or 2) mass units [electrons]. Because such substances usually have a single electron in their valence shell, they will most easily conduct free mass [electrical energy] between similar substances to which they are bound.

2 A **metallic bond** is a form of covalent bonding in which all the atoms under contract possess a *KMN* value of 1. Because all the atoms are conductors (and their composite material is thus also highly conductive) the single valence electrons are shared freely between all of the atoms in the material instead of per molecular bond such as in high-*KMN* molecules.

3 When conductors form covalent bonds in which their individual electron-mass is shared among all of the atoms under contract, and that mass is free to wander through the material as energy-in-motion, then that material is composed of a **metallic lattice**.

4 Conductors don't have stable houses, so they can never achieve rest. Only substances with full *KMN* cubes have houses, and can remain at rest. Because conductors have unstable houses, they will give up their single *KMN* electron in order to join a metallic lattice and engage in the collective exchange of free mass [energy]. Engaging in the continuous exchange of energy satisfies the instability of the *KMN* level of conductors. Under such contracts, the natural instability and high-energy-level of conductors directly

promotes the production of electricity.

Section § 6 How to Produce Electricity

Subsection § 1 How Electricity is Produced

1 As it has been said before, electricity is the discharge, exchange, sharing, or transmission of free mass-substance [electrons] between the *KMN* levels of atoms engaged in a contract of the heart. Electricity is the energetically excited state of mass-substance-in-motion, whereas conventional matter is the energetically neutral state of mass-substance-at-rest. The stability of any substance will increase as a result of an increase in *KMN* to the maximum capacity of 8, or, alternatively, the voiding of all *KMN* mass. The objective of the energetic state of any substance is the stabilization of the *KMN* levels of every atom in the system, and bringing the heart to rest within its house.

Subsection § 2 Electricity from Friction

1 We learned about producing electricity from friction at the beginning of this volume. When two materials are brought into close, rhythmic contact with one another, then one of them may accumulate mass [electrons] which has been freed from the other by the applied force. Charge that results from the transfer of electrons from one material to another is called **static electricity**.

2 The heat energy produced by rubbing friction facilitates the freeing of unbound mass [electrons] from the surface of materials, especially insulators like glass and rubber. When this act results in a static charge netted by the insulator, it is known as the **triboelectric** effect.

Subsection § 3 Electricity from Chemicals

1 Chemicals are the pure (or ideally pure) form of molecular and compound substances that epitomize the properties caused by their elementary composition. Chemistry is the study of such substances and the way that they react to one another. Chemistry comes from the root "KM" and it refers to the study of substance *N* according to the relationship between the positive *SBA* and the negative *KM* fields, the conditions of which result in the transmission of free mass. Chemistry and al'Kemi are identical disciplines which study the progression of substantive [i.e., quantitative] properties from $n1$-$n103$.

2 Chemical solutions of different elementary substances can produce electricity based on the principles of **electrochemistry**. A **battery** is any combination of substances which induces the transmission of free mass.

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WORKBOOK:
INSTRUCTIONS FOR KNOWING ALCHEMY [AL-KEM-ISTRY]

1 [Note: in notating ionic substances, "$+n$" means that the substance lacks *n* electrons and thus nets a positive charge; "$-n$" means that the substance possesses *n* electrons in excess and thus nets a negative charge. If no number follows the sign then the charge is 1.]

2 [Note: in notating substances, the *KMN* quantities will be noted only as needed.]

3 **Example**: A wet battery is made from a solution

called an electrolyte. An example of such a solution is sulfuric acid and water mixed in a glass container.

The distribution of each ion through the solution is balanced and the solution has no net charge. Add:

copper $n29$ and zinc $n30$ bars + the electrolyte solution

(1) the negative sulfates pull positive zinc ions $n30+$ out of the zinc bar, leaving one electron -1 per ion in the zinc bar and giving the bar a negative charge;

(2) the positive zinc ions bond with and neutralize the negative sulfate ions giving the overall solution a more positive charge due to the presence of $n1+$;

(3) the positive hydrogen atoms $n1+$ attract free electrons from the copper $n29kmn1$ to again neutralize the solution; ergo: copper = $n29kmn0$ = nets a positive charge.

This reaction will persist so long as a difference of potential exists between its constituents.

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Subsection § 4 Electricity from Pressure

1 We have learned that the force R bends substance N 90° toward the mean S between the two opposing poles of a magnetic field in order to accumulate the difference in potential between the two poles, or the **pressure**, needed to transmit a current of mass-substance through the field. Hence, pressurization is one of the key methods of producing electricity.

2 When the force of energy applied by pressure is distributed among the atoms of specific substances

then the electrons of those atoms are driven out of their orbit in the direction of the force. Free mass thus accumulates in the form the energy on one side of the material, thus building positive and negative charges in the respective ends of the pressurized material. This effect is called **piezoelectricity** and is the result of pressure caused by a twisting or bending force.

3 If the pressure is released, free mass will redistribute neutrally throughout the material; the electrons will return to their original atomic bodies; and net charges will dissipate.

4 Crystalline substances like Rochelle salts and certain ceramics like barium titanate are most effective in producing piezoelectricity.

Subsection § 5 Electricity from Heat

1 Two unlike metallic substances [conductors] can be joined in order to transmit free mass between the higher-*KMN* substance and the lower-*KMN* substance depending on the desire of each metal to either empty or fill its *KMN*.

2 **Eample**: copper *n*29*kmn*1 and zinc *n*30*kmn*2 will act as such. The copper desires to free its single mass unit from its *KMN* level in order to achieve stability. The zinc will receive the free mass and net a negative charge: *n*30*kmn*2+1 = *n*30-. The copper, having freed its mass, nets a positive charge: *n*29*kmn*0 = *n*29+.

3 Such charges which develop at room temperature [thermoneutrality] are small because, even though the materials are conductors, the energy level of the materials is not high enough to free a substantial amount of mass from the valence shell *KMN* without applied force.

4 If you apply force in the form of energy from heat [thermopositivity] to the junction of two dissimilar metals, then you will raise the energy level of the mass resonating in their *KMN* levels, and that increase in energetic instability will cause a higher rate of mass to be freed from the copper.

5 If the metals cool [back to thermoneutrality] then the accumulated free mass will redistribute neutrally throughout the materials; the electrons return to their original atomic bodies; net charges will dissipate.

6 The method of increasing thermopositivity in order to promote the transmission of free mass is called **thermoelectricity**. The dimetallic device used in such a reaction is called a **thermocouple**, and a bound mass of thermocouples is called a **thermopile**.

Subsection § 6 Electricity from Light

1 **Light** is produced by the 180° discharge of mass-in-opposition *NN* from a magnetic mean *S* toward a limit of *KMN*. It is because of light that only the *KMN* of atoms can be perceived by and interact with other bodies; alternatively, the *SBA*, the center in which this "light" is generated, can only be perceived by bodies which are contracted to it.

2 According to Ancestors, light is the frequency of electromagnetism that causes the waveform-spectrum to be manifest to perception. The Ancestral variable for Light is

$$R^2(MF) = MRKHB$$

According to this *medu-neter* equation, light is what is discharged from the *B* to the *KH* through the field *M* by the force *R*. If *B* is generally unperceived in the

center of *M*, then the light frequency must lie within the field *KH* of *M*. However, because the substance *N* is quantitatively identical in *B* and in *K* except for the factor of pressurization, then light must be the degree of frequency that increases the volume of *N* toward *KH.* Thus it may be said that for every level of *KM*, the degree of light squares the volume of the atomic sphere, and the energy expressed by the *K* is proportional to the mass *N* multiplied by each *KM* level.

3 According to Western tradition, light is made of "small particles of energy called photons." Light is not a particle, nor made of particles; nothing is truly a particle. However, a **photon** may be an accurate name for the magnetic factor which squares the growth of a waveform *N* toward *KHMN*. When substance *N* in the positive magnetic state of *SBA* reciprocates the force of its pressure *R* by increasing its volume of *KM,* then it discharges mass *KMN* toward the limit of its magnetic field upon force *R* squared. Hence, force R^2 is the photon, the substance of light, i.e., the force which enables discharged *KMN* to be perceived and therefore give material expression to substance *N*.

4 The photon carries the *medu-neter* equation of

$$R^2 = PTH$$

where the variable *H* in this case bears the sign of a piece of twisted flax signifying double-helix waveform geometry. Variable *P* bears the sign of a square, and variable *T* bears the sign of a semi-circle/loaf of bread. The equation means "a waveform transmission which is discharged by the square of force from one octave toward the opposing octave." The semi-circle sign for *T* is nearly identical to the basket sign for *K,* except that *K* is turned with the opening upward, as if

to collect mass, and it has a handle. Therefore *PTH* refers to the relationship between the force of *R2* and the *KM* level.

5 By these definitions, the photon is the square of the bending force itself, *R2*, which can, upon contact with certain substances, increase energy levels and free mass. The method by which photons, upon contact, raise the *KMN* energy level of atoms and cause those atoms to free their mass and transmit that mass in the form of energy is called the **photoelectric effect**.

6 **Photoemission** is a photoelectric effect in which photons cause the atoms of a substance to free mass as energy in a vacuum tube, which energy would then be collected by a plate.

7 The **photovoltaic** effect occurs when one of two bound substances [as in a battery] comes into contact with photons and releases its mass to the unlike substance, opposite charges building between the substances.

8 **Photoconduction** is the photoelectric effect in which photons cause the atoms of a substance that is not normally a good conductor to increase their energy level and free their electrons, causing them to become better conductors.

Subsection § 7 Electricity from Magnetism

1 The Western scientist considers it to be a novelty that magnetism affects the flow of the current of free mass [electrons], while our Ancestors understood that it is the very Nature of electricity to be conducted through a magnetic field *M* according to the laws we have learned. Furthermore, it is the very nature of the substance of the field [mass *N*] to be expressed in states of alternative rest and energy. These states

materialize as resting substantial material [matter] $N = KM\text{-}TM$ and as the current of mass-as-energy [electricity] RA which motivates and thereby sustains every atom of that matter. This effect is called **Electromagnetism**, or, less preferably, magnetoelectricity.

Section § 7 Electric Current

Subsection § 1 What is Electric Current?

1 Free mass KMN [electrons] moving in the same direction produces an electrical current A, E, or I (the sound-signs are phonetically intimate and all signify the vibration of a waveform, differing only in degree of frequency and tone). The magnitude of the current is in direct proportion to the quantity of freely moving mass against the degree of the substance's resistance.

Subsection § 2 Free Electrons

1 Valence electrons are high-potential mass units on the outer shell of every atom, and they may be freed from the bond of their atom providing that low quantities of KMN receives an application of force. In groups of low-KMN-level conductors, the few valence electrons per atom are freely shared among the KMN-levels of all other atoms thus engaged in the metallic bond, providing sufficient applied force. The few valence electrons per atom multiplied by the number of atoms engaged in the contract of electron sharing results in an accumulation of mass moving freely as pure current of energy RA through the material.

Subsection § 3 Electron Movement

1 The free mass will move through the conducive material toward the positive SBA location of the

greater magnetic field *KMN*. The magnitude with which the current of mass-energy *A* passes through material *KMN* depends on the positive force of attraction *SR* being applied to the material. If the difference between positive and negative force is increased, then mass will move with increased concentration and velocity toward the *SBA*.

Subsection § 4 Current Flow

1 Electric current *RA* travels up to a limit of

$$C = 186,000 \text{ miles per second: the speed of light, or the force of } R^2$$

This is the speed toward which R^2 bends the substance *N* into material expression of mass *KMN*. However, the quantity of *N* and the levels of the *KMN* of the atoms, as well as the the types of bonds which they engage in and the kinds of substances produced, will determine the resistance against which the force R^2 is moving, thus slowing the force down considerably from reaching the limit of light.

2 *N* is the reference point, or pitch, of the field *M* in which the electromagnetic effect of atomic growth takes place. Light, R^2, is the next higher octave of the reference pitch $N=0$.

$$R^2 = (AT)MF$$

$$N^2 = RA(M) = \text{the EM spectrum [AMN} \ldots \text{ATM}(KMN^8)]$$

The electromagnetic wave spectrum lies between $N=0$ and $N=R^{2^8}$.

Otherwise stated, the maximal growth of any electromagnetic cycle operates between the zero-

point of blackbody inertia $AMN=0°$ and the limit of vibrational frequency $R2 =360°$.

Subsection § 5 The Current Impulse

1 The energy RE is applied to the KMN field causing the [electron] mass to become freed from the bond of its atom, but the mass will not continue in the direction of force on the strength of its own unencumbered momentum *per se*. Free mass transmits directly into the least-resistive neighboring atom with which it has contracted some kind of bond. The force R with which the freed mass $KMNul$ collides with its neighbor will free that neighbor's mass in the direction of force. This transmission of free mass from atom to atom within a body [bound substance] is the **impulse** of the electrical energy R that is being conducted through that body, and that impulse creates the electric current A, E, I.

2 Remember

$$PTH = R2 / KM$$

where P = the square force R ; and T = the 180° octave which signifies both $R2$ and the octave root of the 360° cycle ; and H = the double-helical movement of the R force which bends mass substance N from B to K. Therefore the force of PTH bends mass substance N around the 180° field of KMN where the mass may then be freed and transmitted between atoms as an electrical impulse. For this reason, PTH is considered to evoke the attributes of a smith or craftsperson who either moulds or mounds matter into the form of R's desire, or shaves or chisels away mass into said form.

3 The electrical impulse of R also carries the equation

$$R = KPRR \text{ or } KHP(R)$$

signifying the transmission of the square of *R* through the *KH*. The mythology of *KHPR* is that of a scarab dung beetle who rolls its seeds into an accumulating mass of soil or dung, just as the electrical impulse rolls each electron along in the current of *RA*.

Subsection § 5 The Speed of Electric Current

1 Free mass [moving electrons, energy] is considered a *current carrier*, and it carries the current *A* of force *R* through conducive substance *KM-TN* toward a speed limit of $C = 186,000$ miles per second.

the current carrier = PTH

free mass (electrical current deposit) = HTP

2 **Example**: Current carrier *PTH* transfers electrical impulse *HTP* of *R* through a body *KM-TM* or *KMNu* –

$$pth = htp(r)/kmn(u)$$

Visualize when a single billiard ball hits one end of a long row of billiard balls: the force [*R*] of its momentum upon collision is transmitted from ball to ball [*KM-TM*] at such a speed that the ball at the opposite end is freed from the row at nearly the same time that the first ball struck.

Subsection § 6 A Complete (Closed) Circuit

1 In learning about the true [MAAT] structure of the atom, we have simultaneously been learning about how a **complete** or **closed circuit** operates.

2 A single atom *ATM* is made of the electrical

circulation of mass substance [energy] through a magnetic field whose inner limit [center] is the heart or **source** S, and whose outer limit [perimeter] is the valence electron field or **circuit** KMN. The source S supplies mass to the circuit KMN which then cycles the free mass to other circuits, or back to the source.

3 The circuitry of a single atom is an elementary battery whose positive pole lies in the center of the unified substance's magnetic field and whose negative pole lies on the perimeter.

4 In basic to advanced batteries, the positive and negative charges are applied to wholly differing materials, and the circulation of mass between those materials occurs in a medium of another substance.

5 In other words, electrons are to atoms as atoms are to a circuit ; and : the heart of an atom is to an electron as the source of a circuit is to the electrical current.

6 Never forget : Mass is static energy and Energy-current is mass moved by force R :

$$E = KPR^2$$

Subsection § 7 An Open Circuit

1 If the circuit of mass [current] circulating through the KMN is broken [to **open** the **circuit**], then the mass's charge would accumulate at the source-discharge [negative] terminal K of S. No mass would be circulated through the source-recharging [positive] terminal B of S, and the circuit would therefore not conduct the circulation of [mass] current I.

Subsection § 8 The Electrical Energy Source

1 The energy source of any electromagnetic system always lies at the geometric center, or heart site S, of the circuit KMN of any magnetically-bound polarity of mass MN. This does not *necessarily* mean that the source always lies in the middle of the physical circuit (as in an atom), but that it lies at the point where the positive terminal B and the negative terminal K of the circuit unify, i.e., where the electrical R charge of mass-in-motion is restored and resupplied to the circuit.

2 Practical circuits such as **batteries and generators** generally follow the geometry

$$circuit = ANKH$$

where A = the current of R ; N = the mass substance of the current ; K = the circuit loop through which mass-energy is circulated ; and H = the "house" or "double-helical" enclosure of the circuit. The variable equation KH signifies that the enclosure of the circuit will be a loop whose positive and negative terminals meet at the source S of current AN.

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     FOR SESH MEDU

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Subsection § 9 Putting Electricity to Work

1 The circuit of a single power source can be routed through many receivers of energy, such as both a lightbulb and a doorbell. However, the conducive material substance *N* of the circuit *KMN* will determine how much energy is supplied throughout each part of the circuit. The higher the *KMN* levels of the substance, the more resistance that substance will pose to conducting current.

2 If a low-*KMN*-level substance [a good conductor] is placed across the positive and negative terminals of a power source, then a near-zero-resistance **short circuit** will ensue and burn out the power source. This is the reason that protective **fuses** are used to open the circuit by melting when the current of energy becomes too high.

Subsection § 10 Electrical Units of Measurement

1 In order to produce a flow of electrical current *RE* through a circuit [of *KMN*], there needs to be a **difference in** [magnetic] **potential** between the positive *B* terminal and the negative *K* terminal of the power source *S* [the battery].

2 *RE* always moves toward the heart *S*. The site where *RE* enters the heart is the positive terminal because that is where the free mass-in-motion is being *re*charged in the power source. It is considered to have a high potential because it raises the energy level of the mass passing through it.

3 The site where *RE* exits the heart is the negative terminal because that is where the free mass-in-motion is being discharged from the power source through the circuit *KMN*. It is considered to have a low potential because it releases the energy of the mass in the form of the electrical current *RE* (*RA*). *RE* must pass from lower potential to higher potential in order to be *re*charged.

Subsection § 11 Electromotive Force (Voltage)

1 The **charge** produced by a net loss or gain of mass [electrons] is measured by a unit called a **coulomb**. A negative charge of

1 coulomb = 6,280,000,000,000,000,000 electrons [6.28×10^{18} (billion billion) electrons].

2 Any difference in potential between two terminals of a battery will result in the **electromotive force** (*EMF*) of *KPRR* which "rolls along" each electronic impulse of the current *RA* from atom to atom toward the heart

S. The *EMF* is measured in units called a **volt V.**

$EMF = 1\ V = 1$ coulomb of current $= 1$ joule of work.

3 Mega = one million. Kilo = one thousand. Milli = one thousandths. Micro = one millionth.

Potential = EMF = voltage.

Subsection § 12 Amount of Current (Ampere)

1 The quantity of mass in transmission [electrons flowing] through a circuit $KMN = 1$ coulomb per second $= 1$ **Ampere**.

2 As we have learned, the *mdu-ntr* variables *E*, *A*, and *I* are all phonetically intimate. They are all vowel sounds, which means that they represent the transmission of a power source's energetic discharge toward the *KM*, and therefore represent the frequency of the energetic waveform. [N.S.C. 4 § 7.8]

3 To clarify the uses of "vowel" variables when talking about different qualities of energy, it is best to establish the following equations:

$E =$ mass in transmission, i.e., a vector field; energy in general.
$I =$ net electric current, i.e., *J* over the resistance of the magnetic field $MN = T$,
     where $J =$ electric current density.
$A =$ Amperes of energy.

4 As a minor aside, the "vowel" sound-sign *U* is classified as a weak consonant in *mdu-ntr*. Therefore it operates both as a vowel and a consonant. As a vowel, $U =$ growth [of frequency or volume or any quantity].

$$U^2 = W = \text{growth in harmonic stability}$$

Section § 8 Effects of Electricity

Subsection § 1 Effects of Electricity

1 Electricity can produce chemical activity, pressure, light, heat, and magnetism precisely because it is the transmission of free mass which lies at the foundation of all of these phenomena.

Subsection § 2 Electricity Causes Chemical Activity

1 In electrochemistry, **electrolysis** is the use of electrical current RE to alter the KM/chemical composition of substances.

2 The ions are attracted to oppositely charged **electrodes.** At the negative electrode $n1+$ receives mass [electrons], neutralizes into $n1$, and escapes the water as gas. At the positive electrode $n8-2$ frees mass, neutralizes into $n8$, and escapes the water as gas. This current will continue until all of the ionized substance is neutralized.

3 In **electroplating,** a substance dissolved in a solution of water $+ RA =$ a positively ionized conductor and a negatively ionized variable substance.

> Example:
> $n29n16n84 + RA = n29+2$ and $n16n84-2$

The conductor would then adhere to the negative electrode and eventually plate the electrode material.

Subsection § 3 Electricity Causes Pressure

1 We learned how piezoelectric charge results from twisting or bending a crystalline substance like Rochelle salt by freeing the mass of its atoms and distorting its lattice geometry. When 1 *VR* of sound is applied to a crystalline substance, then that substance will respond by bending according to the frequency of the pitch of the current. This is how crystal earphones and the cutting stylus of a phonograph record work.

Subsection § 4 Electricity Causes Heat

1 The flow of electrons itself is heat. In other words, mass is set into motion by heat and the energy of that mass itself is heat.

Subsection § 5 Electricity Causes Light

1 Good conductors release energy in the form of heat at a less wasteful rate than poor conductors. Poor conductors release energy as heat and light in the form of a glowing red and white hot appearance. This is how an **incandescent** lamp works.
2 Light can also be produced without wasting energy as heat by such methods as **Phosphorescence**, in which a current of energy *RE* strikes "some *phosphors* and other types of materials."

3 **Electroluminescence** is the effect of tonal light radiations produced by certain ionized gasses (especially inert gasses like neon and argon) when they conduct current.

4 **Fluorescence** is when an electroluminescent [electrically charged, ionized] gas like mercury emits ultraviolet radiation which strikes a phosphorescent coating which gives off a "white" light.

Subsection § 6 Electricity Causes Magnetism

1 Any conductor, or any body soever, carrying electrical current *RA* will act according to the magnetic field of its heart. This is the law of electromagnetism.

Section § 9 Magnetism

Subsection § 1 Magnetism

1 All substance is magnetic, just as all substance is electric, due to the necessary conditions of inter- and intra-atomic motion. However, some substances express a more polar magnetic orientation due to the instability of their atoms, while other substances express a more neutral magnetic orientation due to the stability of their atoms.

2 The earth, as a substance, is structurally atomic because it has a positively charged core and a negatively charged crust / atmosphere. The earth is also electronic in the context of its solar system because it revolves around the nucleus of the sun; and the sun is in turn an electron which revolves around its own nucleus of Sirius; and so on unto the nuclear black hole of the Universe. For these reasons the earth has its own electromagnetic field, and everything on earth obeys the earth's electromagnetic lines of force.

3 A leading stone, or **lodestone**, is a naturally occurring magnetic substance which is found in the earth. If allowed to move without resistance, it will align itself toward the earth's north and south poles.

Subsection § 2 Magnetism and the Electron

1 Because Western science does not concede that electricity and magnetism are complementary and indivisible components of atomic structure, it is tasked to explain what is calls the "electron theory of magnetism."

2 The Western theory says that the electromagnetic field of the electron is produced by a combination of (1) the negative electrostatic field which attracts mass toward the electron and (2) the magnetic field caused by the orbital **spinning charge** of the electron.

3 According to MAAT Natural Law, mass *N* on the outer *KMN* field is just the same as mass on the inner *SBA* field except that their expressions are opposite [at 180°]. Also, this mass is obviously *always* in motion, and the force *R* of this motion bends [or turns] mass about its own axis and bends [or turns] mass about the axis of its substantive heart *SBA*. Hence, mass is bent into *SBA* and out to the *KMN,* then back from the *KMN* and into the *SBA* and out again, and so on.

4 When mass is in the *KM* it is called the electron. The electron spins on its own axis as it revolves [moves] about its heart, always seeking unity with the nearest *SBA*. This is the MAAT explanation of the centripetal electromagnetic field of the atom.

Subsection § 3 The Magnetic Molecule

1 We just learned about the spinning charge of electrons, which is produced by the direction in which each electron orbits [discharges away from and retracts into] the *SBA* nucleus of its atom. The spin charge produces a concentric spiral [centripetal] magnetic field around the electron.

2 Electrons, as mass discharged from the *SBA*

southward toward the *KMN*, can be sent along any trajectory out of 360° because both the *SBA* and *KM* fields are concentric spheres. For this reason, every unit of mass-substance which is discharged from the *SBA* can take one of any number of trajectories, and it is this variable of trajectory which give them differing spins.

3 In most atoms, electrons tend to pair off in orbits [of the same *KM* level] with opposite spins so that they produce opposing magnetic fields and cancel each others' force. The mutual nullification of force brings the magnetic effect of both electrons to rest. In most molecules, atoms bond to fill their *KMN* levels to 8 and therefore come to rest.

4 In the substances *n*26, *n*27, and *n*28, however [who all have a *KMN* of 4:2], their atoms naturally combine into ionic molecules whose *KMN* [valence electrons] are arranged in such a way that their spins do not cancel, but add.

5 When electrons of the same spin occupy the same orbital [*KM* level] then their spins add and amplify their centripetal electromagnetic field, thus producing what are called **magnetic domains** in their substances. These substances are also called **magnetic molecules**.

Subsection § 4 Magnetic Materials

1 Naturally magnetic materials are called **ferromagnetic** materials with respect to the properties of Iron [*n*26] a.k.a. that which is "ferrous."

2 An **unmagnetized** magnetic material is one in which its magnetic molecules are scattered and disoriented in such a manner that their magnetic fields nullify each other.

3 A **magnetized** magnetic material is one in which all of its magnetic molecules are pointing in the same direction [toward (North-bound) or away from (South-bound) the heart *SBA* of the system]. A partially magnetized material is one in which only a few of the magnetic molecules are **aligned**, i.e., oriented toward the North and South.

Subsection § 5 How to Magnetize Iron

1 **Alignment** is the method by which one magnetizes any material so that it can pass a current of *RE* from South to North.

2 One method of alignment is stroking the north end a magnet across an unmagnetized material.

3 Another method of alignment is coiling an unmagnetized material in conductive wire and passing a current of *RE* northbound through the wire.

4 Whether or not a magnet will be **permanent** or **temporary** depends on how hard or soft its material is.

Subsection § 6 How to Demagnetize a Magnet

1 The process of demagnetizing a material is the reverse process of aligning it.

2 One method of dealignment is to strike a magnetized material hard or often enough that its molecules become sufficiently scattered. Another method is to apply energy in the form heat which will cause the molecules to vibrate and become sufficiently scattered.

Subsection § 7 The Earth's Magnetic Field

1 We learned at the beginning of this section how the earth is a magnet, because it is an electron, because it is a mass spinning around a nucleus. However, the north/south magnetic pole of the earth is 23.5° away from the north/south geographic pole as based on the earth's elliptical plane.

Subsection § 8 Magnetic Polarities

1 A magnet, given zero-resistance, will always align itself toward the North pole of the earth because its material, which is made of the earth's *KM,* will be conducting the earth's ambient current of *RE* toward the *SBA* site of the earth's nucleus, which gateway is located at the North pole.

Subsection § 9 The Magnetic Compass

1 A compass works due to the above explanation.

Subsection § 10 Attraction and Repulsion

1 When it is said that "like poles repel, unlike poles attract" it means that all mass-energy *KM* in transmission seeks to enter the North gate of *SBA.* The magnetic polarity of *KM* mass is negative, so it is automatically attracted to the positive polarity of *SBA*. When the *KM* passes into and out of *SBA*, it will again seek toward the *SBA* through the entire circuit of the *KM* field.

Subsection § 11 The Magnetic Field

1 The magnetic force expressed by a material creates a field around the substance which conducts mass *N* from the *KM* to the *SBA*, i.e., from the south pole of

the magnet to the north pole of the magnet.

Subsection § 12 Lines of Force

1 The magnetic field is represented by **lines of force** which describe the direction in which mass is moving through the magnet. In a spherograph, the north and south poles of a magnet lie 180° away from each other on the perimeter of a spiral made up of diminishing concentric lines of force. Lines of force also enter the field from the south pole and exit the field through the north pole. The shape is overall toroidal, although a bar magnet, or any given mass i.e. body, suggests such energetic geometry.

Subsection § 13 Interaction of Magnetic Fields

1 The north pole of a magnet is discharging mass-energy current RE and the south pole of a magnet is receiving mass-energy current RE. For this reason, if the north pole and south pole of two different magnets are brought together, they will connect in order to continue the transmission of the current RE from the south to the north.

2 If the north poles of two different magnets are brought together, however, they will repel each other because both poles are discharging mass-energy and thus cannot connect to transmit the current continuously. Similarly, if the south poles of two different magnets are brought together, they will repel each other because both poles desire to receive mass-energy, and neither pole is discharging that energy.

Subsection § 14 Magnetic Shielding

1 Magnetic lines of force pass through all materials,

but they will seek the path of least resistance, or **reluctance**, through any given system. For this reason, one can shield a material from the presence of magnetic fluctuations by surrounding it with low-reluctance (magnetic) material.

Section § 10 Electromagnetism

Subsection § 1 What is Electromagnetism?

1 Free mass [electrons] [*KM*] moving through a wire under a force *R* causing a current flow *I* carries a magnetic field as a result of its orbital spin. These fields add when surplus electrons accumulate, such as in a current flow.

Subsection § 2 Electromagnetism in a Wire

1 The magnetic field of an electron, or any body of mass, moves clockwise to the forward direction of electrical current flow. If the current were flowing away from your vantage-point of perspective, then the magnetic field would appear to be moving counter-clockwise.

2 In the Parable of the Boat of *RE*, the force of *R* moves straight forward and "those who are in the company of *RE*" go around the force from the western 180° horizon, through the *TUAT*, to the eastern 180° horizon, and over the *NUT* [sky] and back.

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3 The **left-hand rule** of determining the direction of the magnetic field shows that if you wrap your fingers around a wire and point your thumb in the direction of the current flow, then your fingers will curl in the direction of the spiraling magnetic field.

Subsection § 3 Field Intensity

1 The magnetic field of current flow [*RE*] through a wire is stronger near the wire than away from it.

Subsection § 4 Field Interaction

1 If two wires carrying current *RE* in opposite directions are brought near one another, then their oppositely-spiraling magnetic fields will repel one another.

2 If two wires carrying current *RE* in the same

direction are brought near one another, then their identical magnetic fields will add to one another and the wires will be attracted into sharing the a common intensified magnetic field.

3 Remember: the magnetic field moves in flux lines that run clockwise spiraling at 90° degrees-perpendicular to the direction of the current flow *RE*.

4 If a wire is bent into **loops** then the magnetic flux lines of the current flow will enter the loop on one side and exit on the other. The magnetic field spiraling within each spiral of the wire will compress at the center to create a dense and stronger magnetic field. The revolution of the magnetic field will also conduct a current from the south to the north pole though the center of the magnetic field of the spiraled wire.

Subsection § 5 Electromagnetism in a Coil

1 A wire which is wound into loops going in the same direction is called a **coil.** Helical means to be wound into loops [spirals]. A multiple-loop-series, tightly-wound helical coil will produce a very strong magnetic field at the center of the coil called an **electromagnet**, and a coiled unit made for this purpose is called a **solenoid**. The magnetic flux lines of a solenoid operate just as in a bar magnet. These coils also follow the left-hand rule.

Subsection § 6 The Magnetic Core

1 An iron bar brought near the south pole of a solenoid in order to conduct current *RE* will be drawn inside of the coil. Tightening the wire around the (preferably soft) iron bar will produce an **iron core**. The low-reluctance magnetic property of the iron will concentrate more magnetic flux lines within its material than would air, and therefore strengthens the

magnetic field of the core.

Subsection § 7 Magnetomotive Force

1 The magnetomotive force *MMF* is the helical force of spiral motion which accompanies the forward motion of a current flow *RE*. This *MMF* force is magnetically attractive in the direction of north.

$MMF = (\# \text{ turns in the solenoid}) \times RA = \text{ampere-turns}.$

2 For a period of inflation, an increase in the *MMF* will produce an increase in magnetic field strength. The point at which an increase in the magnitude of the *MMF* ceases to produce an increase in field strength [# of magnetic flux lines] is called the **saturation point**.

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APPENDIX OF
NATURAL PHILOSOPHY
N.S. MAAT Law Statutory Code Title 4

SECTION § 5 Principles of Lawful Conduction and The Rise of Order (or, Theocratic Statesmanship)

1 Wasar in the Tuat is the model of Sovereign Statesmanship representing the faculties of the consciousness of the Human Being and the exercise of Good Judgement on the individual and on the interactive (battery) level.

2 Ra in Heaven (that is, appearing to pass over and around the earth) is the model of Sovereign Statesmanship representing the Human Being's right to government by divine rule;—that is, by a government in the model of the P*au*T *n*TR*u* [the order of forces who are in the company, or boat, of Ra], also called: *Abosom*, *Orisha*, *Vodou*, *Arusi*: "Spirit-forces of Creation animating Nature" ; *n* degrees of spectrum *u*.

3 Civilization is the act of engaging in the Order of the *n*TR*u* forces which come forth in the company of Ra, or, the act of *Ra*-ising [raising] Order out of "Chaos." The Order of the *n*TR*u* is the set of values for the frequencies of sine-wave conformities within a spectrum of *n* pressure zones; where $n=8+1$ or $n=9+1$ depending on the model; and $u=n$ to the power of *n*.

4 R [Ra] is the Force which gives/transmits/bends energy E through a magnetic field M, thereby giving Order to the field of blackbody radiation called "inertia," or neutral disorder N.

5 High or Right Civility [lawful battery] conforms to the Natural Order *n* of MER Law within given MN field-density. The order of *n*TR within MN is MA*a*.

6 R force E approaches the limit of C when M offers no resistance to E. RE=MC^2. Any M with a resistance *n* is T. Any EM force R possesses a current density I (A).

7 RE force concentrates as light-mass MC in capacitor IT*n* (the sun disk) and engages in lawful battery with the earth-mass TN*n* [mass out of inertia; risen land]. The magnetism M of IT*n* registers the capacitance of the system IT*n*-RE that allows for the mass TN*n* to occupy the natural *n*TR pressure zone for E and thereby support life and generation.

8 The site B of mass IT*n* (the sun) for force RE is the North-pole/center of the battery while the site K of mass TN*n* finds its natural pressure zone in the South-pole/perimeter. E transmits from South to North by East and back by West. Therefore, a divine ruler [i.e., IT*n*-RE] measures revolutions per cycle of generation for all bodies within its magnetic field.

9 RE current passing through a mass-resistance *n*T within a MA*a*-T pressure zone is RAM current. In a stable, balanced battery D (i.e., civilization) every body of mass [comprising the total mass *n*T of the body-politic] comes to rest within the cycle of its natural pressure zone according to RAM and RE current IT*n*.

10 Any mass T which comes to rest against force RE within a stable cycle of MA*a*-T is WSIR, where W=*u* and S=dipole electric force in opposition, i.e., wave.

11 The Tribunal wherein is measured N*n* (the place of balance, or neutrality, at the center of T), i.e. the Heart, of waveform S is the seat of force R when in mass T. The weight of the Heart is found by measuring the resistance of T to C. Hence, the

Tribunal takes place "hidden" within mass TN*n,* i.e., in the Secret Chamber.

12 When force R is vindicated from the resistance of mass T, then it will approach C in the positive direction of IT*n.*

13 Given a system of governing bodies according to Right Conduct [a lawful battery, a civilization], it is good to note the order [MA*a*-T] *n* by which inert mass N conducts force RE through magnetic field M into mass T within a system approaching C.

14 H is the boundary or "house" of the limit constant C.

15 The force which initially conducts ES sine-waves into lawful MA*a* mass *n*T from N is KPR, where K=magnetic mass-potentiality.

16 The force which gives growth *u* to T by amassing waves MA*a* is PTH.

17 The total potential force N*n* + total RE force K of magnetic field H is current IMN.

18 Here follow several natural models by which *n* approaches C within a system IMNT.

Section § 6 Natural Models of Order

1 The Kmt Cosmologies comprise a Grand Unified Field Law developed through measured, mythical, pre-rational, and proto-rational scientific methodologies. The following models of personified attributes of mathematical functions (*Ntru*, etc.) codify the physical processes of mass generation.

2 The ***Khemennu* Hermopolian Cosmogony** defines

the hidden Ogdoad (n=8 values of quantum waveform) which exists in the Primeval Waters of nonpolarized magnetic (dark) lightwaves:

[n1] NuN & [n2] NuN-T, the Waves;
[n3] HuH & [n4] HuH-T, the Limitlessness;
[n5] KuK & [n6] KuK-T, the Darkness;
[n7] IMN & [n8] IMN-T, the Hiddenness.

Described as aquatic frogs and snakes, respective of male and female sex, who, when in convergence i.e. unity, are said to produce the pyramidal mound from which comes forth the Son into the Day. The primeval mound is also called "*ka,*" raised or exalted land. The *medu* for *ka* is both dismembered raised arms and the raised arms of a human figure; hence the concept "raise up the god from the waters." Vibrations below (i.e., earthquakes on the ocean floor) caused the mound to rise up out of the water. The mound is the flesh, house, or *"af"*/*"afu"* of the life force energy "God" "*Ra*"/"*Rat*", which enters the mound (as sun rays) and courses through it begetting living things (his/her children). The mound also represents the Dogon God Amma's termite hill. The Dogon conceive of the Christ-like saviors and messengers of humanity as a pair of half-fish-beings called *Nummo*.

3 The **Dogon** people of Mali, etc., modern West-Afrakan descendants of the Pharaonic Napata-Khmtu, conceive of their God *Amma* as a ball composed of four conjoined clavicles (ovoid grain shapes) which signify the four elements (*kize nay*, "things four") and whose bisectors mark the four cardinal points (*sibe nay*, "angles four"). In Dogon *dogo so* language, *amma* means "to hold firmly, to embrace strongly and keep in the same place" (Griaule & Dieterlen, *The Pale Fox*). Herein lies the general cosmogonic conception of the One and First Thing, Lord God Almighty (in Kemetic *mdu ntr* language, *ntr nb r'*

tcher): One thing is four things of two sexes which are maintained as a singularity by a contractive force. Within this symbol lies the image of eight things [4(2), Ogdoad], nine things [1+4(2), Ennead], an axis (or cross), four quarters of a circle, etc.

4 The *Iwnw* (Anu) **Heliopolian Cosmogony** defines the Ogdoad of Hermopolis [*n*TR=8] as the *n*TR ITM [*Atum*], who is *n*1 to emerge from the primeval mound of *n*TR=8 [*Ka*].

[n1] ITM begets another, manifest Ogdoad. This second Ogdoad + [n1] ITM generates a sequence [n=9] which represents the cosmic, terrestrial, and human life-forces:

[n2] *Shu* and [n3] *Tefnut*,
[n4] *Geb* and [n5] *Nut*,
[n6] *Ws ir* and [n7] *Ws het*,
[n8] *Sutekh* and [n9] *Nebt Het*.

5 The ***Het Ka Ptah of Men Nefer*** **Memphite Cosmogony** defines both the Hidden [n=8] and the Manifest [n=9] as the creation of the Mind and Word of the *n*TR PTH [*Ptah*], when the desires which he developed within his heart (mind) were given form (mass) when he spoke (vibrated) their names (waves). In the Tribunal of *Wasar*, the heart of the Defendant is weighed against a feather symbolizing the lightness of truth (*ma'at*) by the *n*TR TH*u*Ti [*Djhuti*] whose name means "to measure twice." Therefore it can be said that *Djhuti* declares or speaks the weight of truth (*ma'at*), or, the Word, which is then judged against one's heart, or soul, by the Judge *Ws ir,* who is established, or who sits, upon *Ws ht*. It is useful to also note that the phonogram for the *mdw* R [*Re, Ra*] is understood to be an image of a mouth.

6 The ***W'st*** (*Waset*) **Theban (*Ta Apet*) Cosmogony**

defines the aforementioned $nTRu$ [n=8; n=9; n=18] to the supreme nTR IMN [*Amun*], who is considered hidden from, or hidden within, all of the $nTRu$. All Companies of $nTRu$, therefore, are considered complete waveform attributes of *Amun*, who is called by the *medu* R when he is vibrated, i.e., spoken, i.e., perceived. Therefore he was considered the "supreme" "god" (*Neter Sekher*).