

Geometry of Light at the Ritman Library

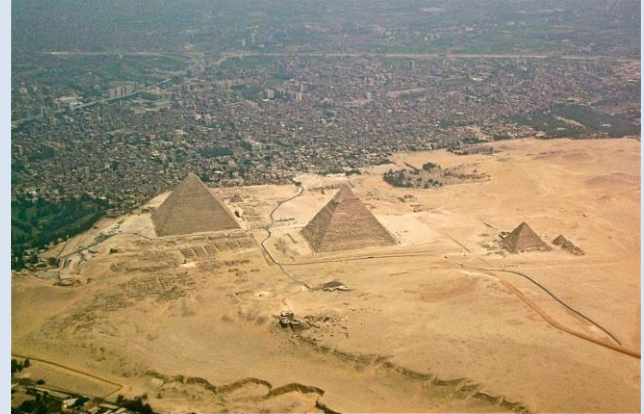
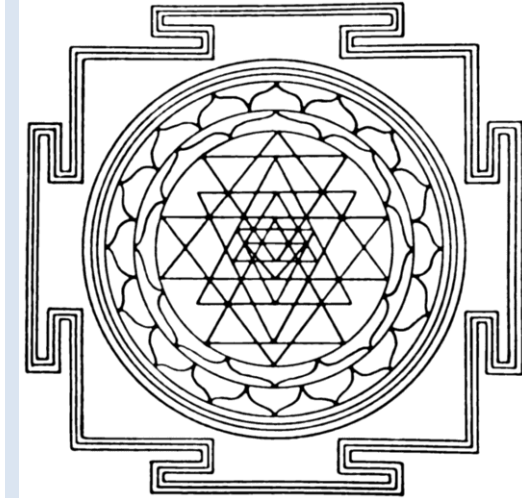
By: Kevin Ravensberg, 16-8-2015

During my visit to the Ritman Library I encountered several familiar geometries describing light and spirit (the universal / omnipresent substance of the universe) and one illustration stood out in particular to me.

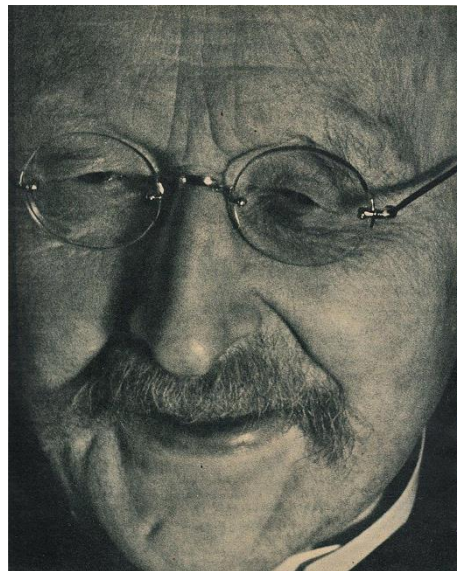
This was the divine "mirror of god" by Robert Fludd (1574 – 1637) where 2 equilateral triangles illuminated by triangular emanations were positioned as the rhombus symbol I immediately recognized as representing light.



These symbols (or subtle variations of it) have been present in many ancient cultures across the entire globe, from (modern) India to Peru.



There is also a modern name for this "Universal Spirit of the world", the Planck quanta (or energy unit), after Max Planck (re?-)discovered the quantized nature of energy in electro-magnetic radiation. For this world changing contribution that started quantum physics he received a Nobel prize in 1919.



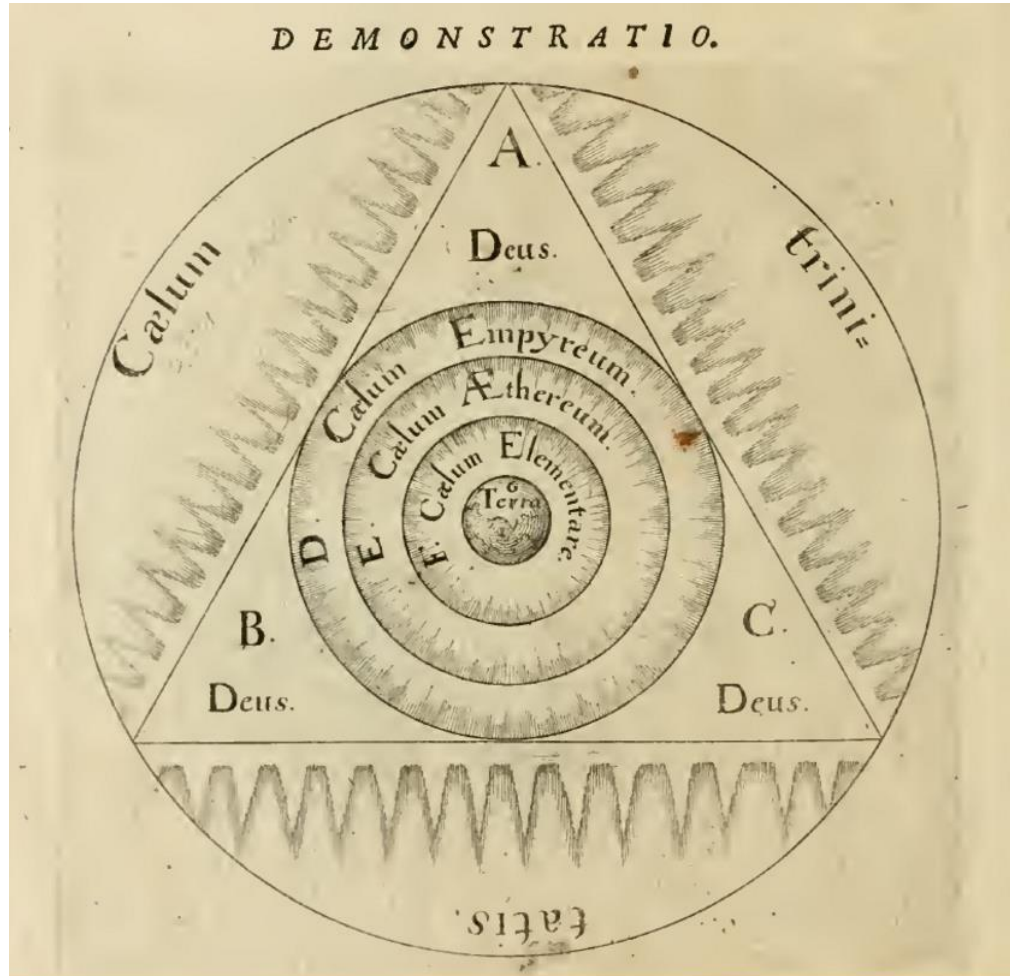
"Max Planck." by DV - Scan from the original work. Licensed under CC BY-SA 4.0 via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Max_Planck..jpg#/media/File:Max_Planck..jpg

(Planck constant: $h = 6.626... \times 10^{-34} \text{ J}\cdot\text{s}$) a unit of energy and time.

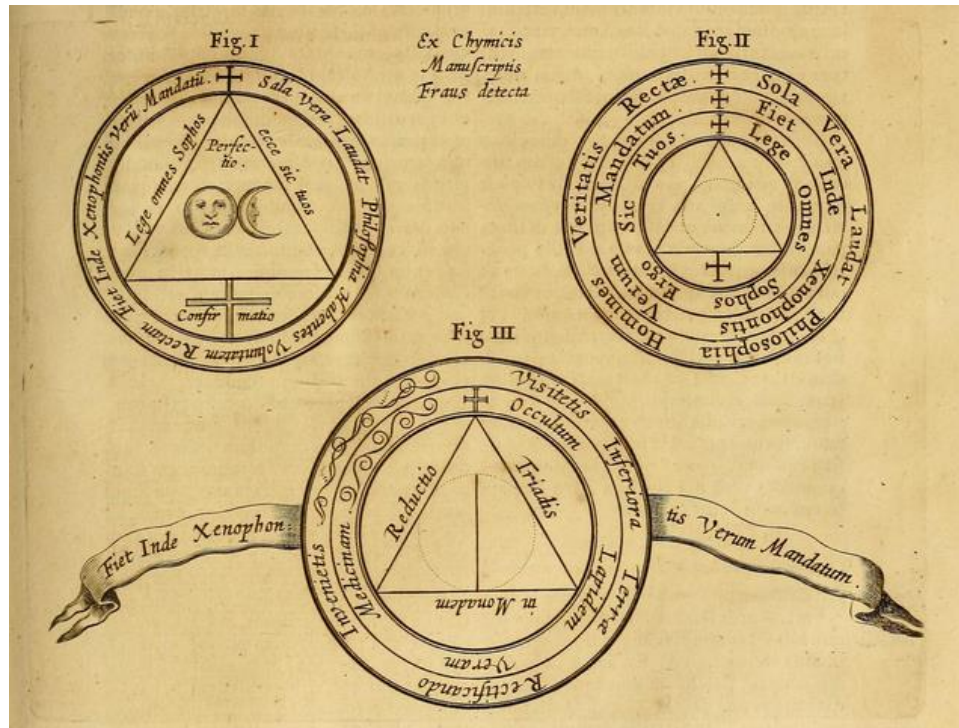
Max Planck expresses a logical thought in line with the Hermetic principle of *Universal Mind*, with thinking Mind as the constitution of our physical universe:

"As a man who has devoted his whole life to the most clear headed science, to the study of matter, I can tell you as a result of my research about atoms this much: There is no matter as such. All matter originates and exists only by virtue of a force

which brings the particle of an atom to vibration and holds this most minute solar system of the atom together. We must assume behind this force the existence of **a conscious and intelligent mind**. This **mind** is the matrix of all **matter**." Max Planck (1944)



This would be the One unit of motion/energy/time, with 2 sides presenting a centripetal/generative and centrifugal/radiative side. In the illustration with "Terra" at the center we would be looking at the centripetal or gravitative action that accumulates the plane into a sphere. The pointed edges of the triangle could be interpreted as the reproduction of balanced electromagnetic light units from the One, radiating or reflecting from the Universal One.



Similar illustrations from contemporary Athanasius Kircher (1602–1680).

An alternative description of the **Universal One** which strongly resonates with me has been given by the *Divine Iliad* through Walter Russell (1871 - 1963):

"Rhythmic Balanced Interchange"

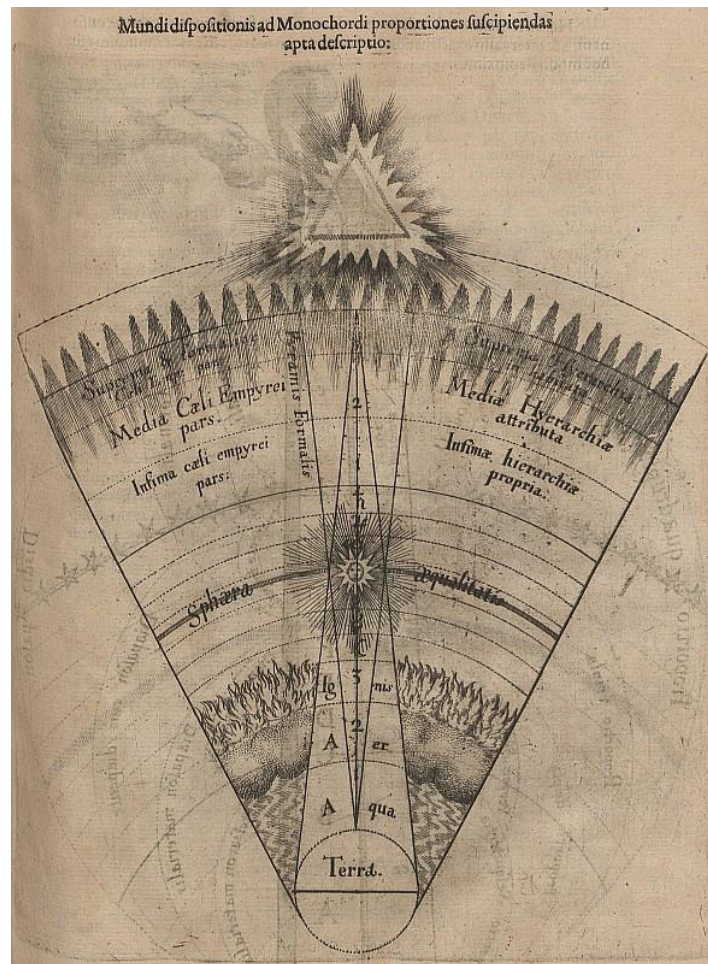
"Behold in Me the One Light from which a seeming two lights appear as pairs of rhythmically interchanging opposites. These are My light messengers. They are My workers which build My imaged forms and give them back to Me devoid of form.

They are pulsing heartbeat of My body, the Makers of forever burning cycles of My imagining in forms of things.

The two are equal halves of one. They never can become one. They forever interchange to simulate a balanced unity which they never find for they never can be aught but two.

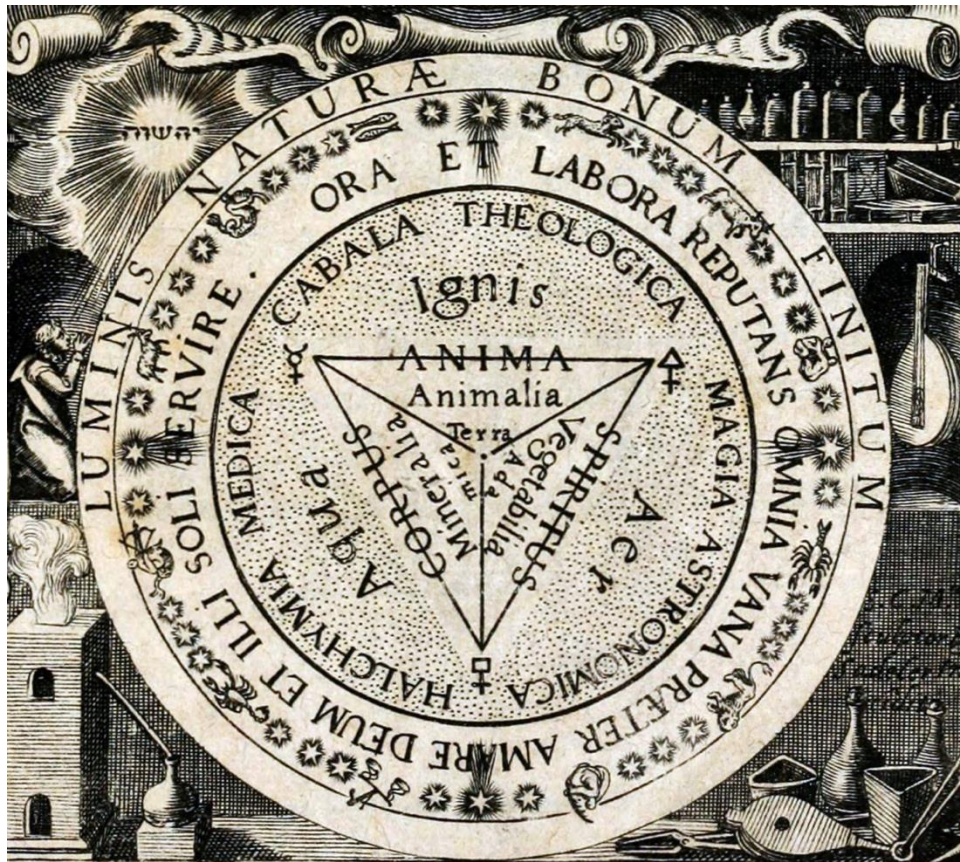
From Me one light extendeth to give form to My imaginings, and give them pulsebeat to simulate eternal Life in them which IS in Me. The other light dissolveth that form and giveth it back to Me unquickened for resurrection in My rest to repeat My imaginings."

Part II. Folding manifestations of Light into Matter



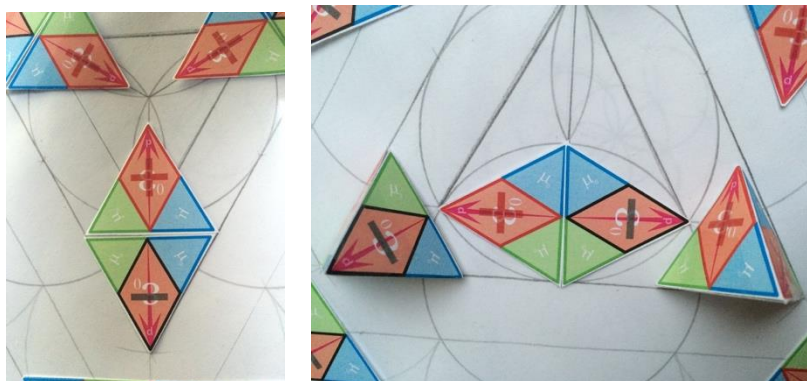
Robert Fludd, "Pyramids of Form and Matter"

Another intriguing concept is hidden in the geometry given to the element of Fire, which is said to be both the first of all platonic elements and the element of *transformation*. Which I also encountered prominently on the title page of Oswald Croll's "Basillica Chymica" (1608), referred to as Ignis.



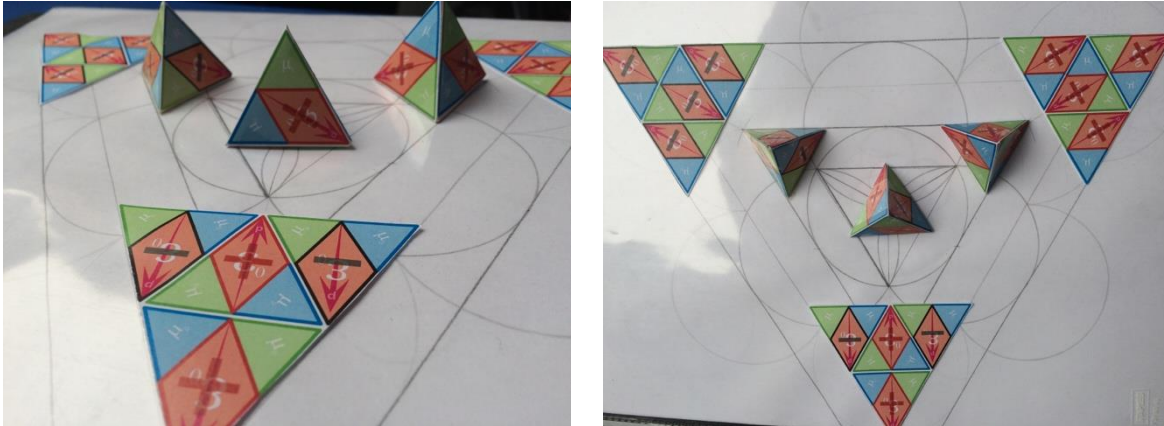
Now I would like to introduce a lesser known theory (simplified model of Nature) from 2006 (by Kelvin C. Abraham), named Tetryonic theory, neatly filling the gap between the esoteric/platonic knowledge of fire (the tetrahedron) the element of change and electromagnetism / modern quantum physics.

He was inspired by the shape of the pyramid, which eventually led him to his (re?)discovery how light crystallizes into solid matter.



Plus and minus indicate positive and negative apparent electrical charge (due to direction of angular rotation), blue and green indicate apparent magnetic N and S poles (N=+ , S=-). The arrow indicates the direction of the linear momentum p .

Here the concept that everything is made of the same universal substance is validated by the folding of light (electrostatic fields) into 3D matter topologies. All particles discovered by modern sensing apparatus, can be reduced to simple coagulations of folded light units.



These tetrahedral units are one step smaller than the current accepted building blocks (platonic element *Earth*) called quarks, gluons and leptons. Only 3 "tetryon" flavours exist, positively charged $+4\pi$, negatively charged -4π , neutral $(+2-2)\pi$. Compared to an electron or proton these tetryons hold only $1/3$ of the historical elementary charge e .

Correspondingly Robert Fludd had suggested the formation of Salt (neutral) or "prima materia" from darkness, Sulphur (electro-negative/female) from light and Mercury (electro-positive/male) from water.

From here on we could explain exactly how every other elementary particle forms, but this is the KEY to understanding how. The advice is to print out the templates of equilateral triangles and learn quantum physics (or geometrical alchemy if you prefer) by playing yourself, child's play right?!

Find the templates here: <https://goo.gl/dpggAC>

A fitting final poetic message from the *Divine Iliad* (as quoted by Walter Russell in *The Secret of Light*, 1947):

"I am the One Whole, the ALL.

Glorify thou Me, the One Whole I am, for I am ALL, and no other is.

I, the sexless One, am Unity.

What I am thou art, for thou art Me; thou art the Whole.

Glorify thou thy Self, for in so doing thou art glorifying Me.

I, the One Whole, am knowing Mind. I exist to think. All thinking is Light of My knowing but My thinking is not Me.

I am Creator, creating with My thinking.

Out of My Light of knowing are My two lights of thinking born as sexed pairs of opposites.

To think is to create. I create with Light. Nothing is which is not Light.

I think idea. Light registereth My idea in the two sexed lights of My thinking, and form is born in the image of My thinking.

Form hath no existence, nor have My imaginings. These exist not, for they are not Me. I alone existeth; I, the ALL.

I create my imaged body with the inbreathing of My pulsing universe of Me.

My universe is My image; but My image is not Me.

All things are My image, but they are not Me, e'en though I am in them and they in Me."

"Man is light when he knoweth that he is Me."

Part III. Building the first element Hydrogen (or deuterium)

6-2-2016

"As we study these complex arrangements, we realize the truth of the old Platonic idea that the LOGOS geometrizes; and we recall H. P. Blavatsky's statement that nature ever builds by form and number."
Occult Chemistry (Chapter 1)

Clairvoyant observations by Annie Besant and C.W. Leadbeater for Hydrogen (or deuterium):

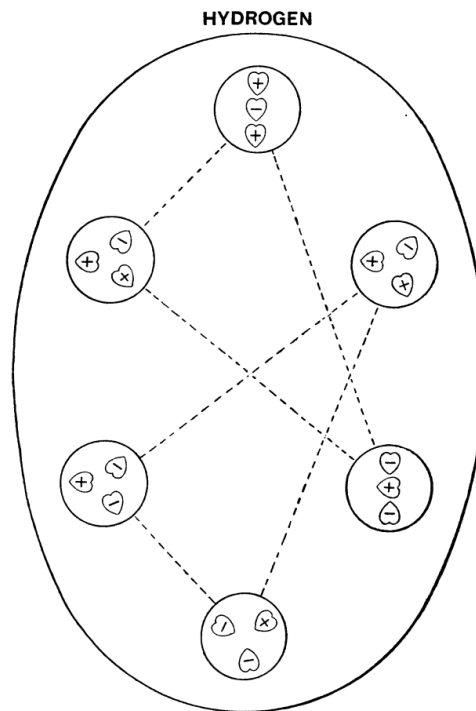
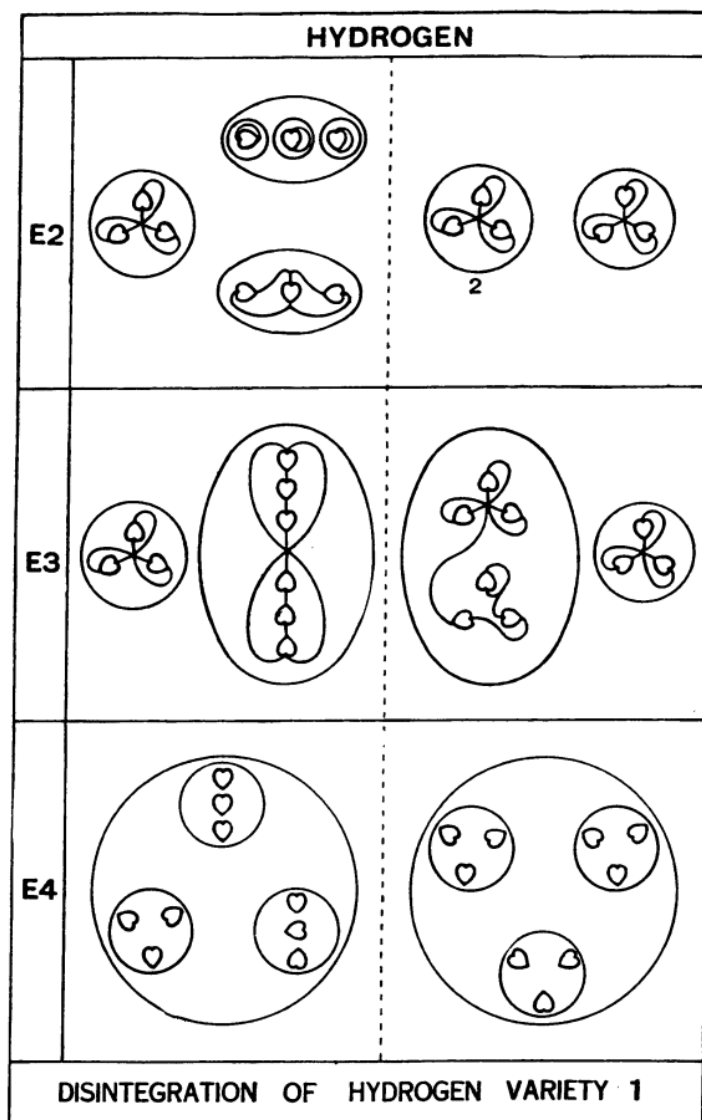


FIG. 1. HYDROGEN

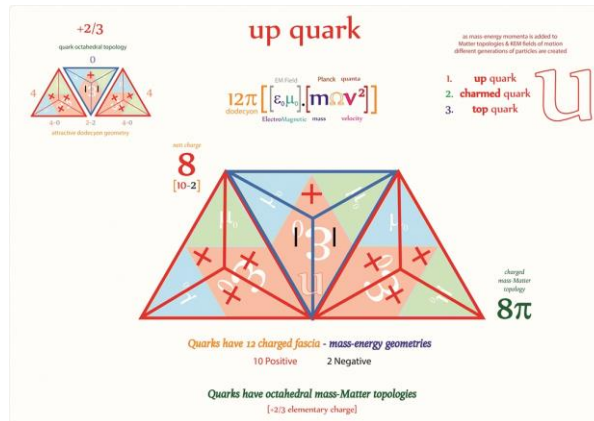
Here we see that the first element above is observed to be made out of a total of 18 smaller sub-particles, which we can also identify with our "tetryons" to make a 3D geometric model of this element.

From modern quantum physics we would only expect the element of deuterium to consist of 1 proton with 1 neutron. In the proton a modern physicist only can identify 3 sub particles commonly know as quarks, namely 2x Up and 1x Down. The charge of these particles is calculated as follows: $+2/3 -1/3 +2/3$ adding to a net elementary charge of +1 for the proton. The same can be done for the neutron, which would consist of 2x Down and 1x Up, adding up to: $-1/3 +2/3 -1/3 = 0$ net elementary charge. See the E2 level from Occult Chemistry below with a very similar observation:

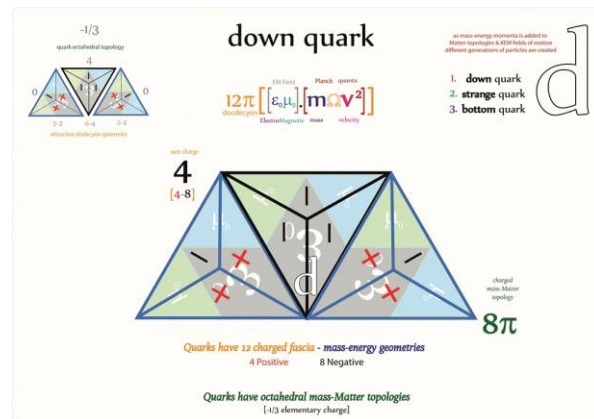
OCCULT CHEMISTRY



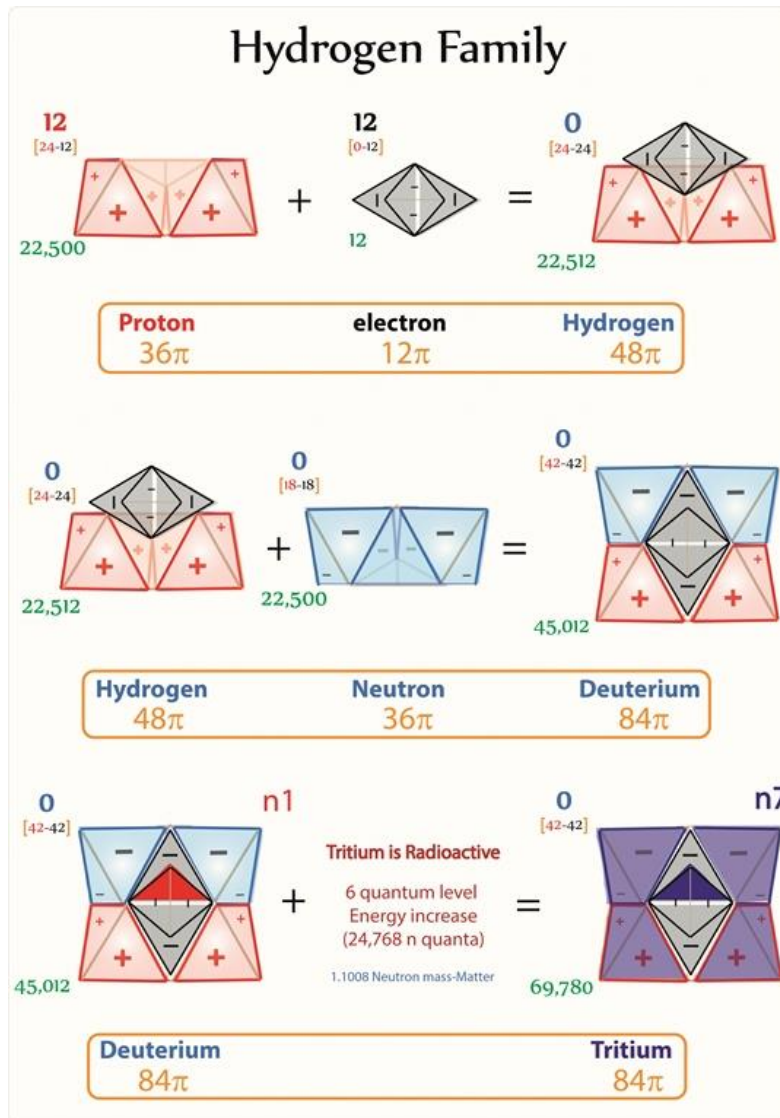
The geometric model described by Tetryonics (K. Abraham, 2006) tells us that these Quarks each must exist of 3 tetryons with a $+1/3$ or neutral elementary charge. This would be consistent with the clairvoyant observation by the Theosophists done in 1895, where the "Anu" (name for ultimate physical unit) would line up.



For the Up quark we would need two positive tetryons (with 4 positive sides) and one neutral (2 negative, 2 positive sides), two positive and two negative sides will attract and leave us with a shape made of 8 charged faces of +1/12th elementary charge.



The Down quark is made from 1 negative and 2 neutral tetryons, resulting in 8 faces (6 negative, 2 positive) of 4 charged faces of -1/12 elementary charge.



There usually is an electron associated with the otherwise positively charged deuterium or hydrogen ion, these consist out of 12 faces of elementary charge or 3 negatively charged tetryons linked via the edges the tetrahedron. This electron as a 'particle' is not clearly depicted in the Occult Chemistry illustrations, which could be due to the function of the electron as a quantum rotator (the component that interacts with photons) and is probably excited by the act of observation turning it into the ovoid cloud observed around the observed structure.

One thing that should be noted is that the Tetryonic model only addresses a single geometry, building up from the lowest observable level by folding. Also the "Anu" or ultimate physical unit from Occult Chemistry appeared as a vortex (of multiple "coiled" etheric levels), not a static crystalline matrix.

C.W. Leadbeater also mentioned the following about the composition of space (or aether):

"To any power of sight which we can bring to bear upon it this koilon appears homogeneous, though it is not probable that it is so in reality. It answers to scientific demands in so far that it is out of all proportion

*denser than any substance known to us quite infinitely denser (belonging to another order and type of density altogether). For the very kernel and nexus of the whole conception is that what we call **matter** is not kailon, but the **absence of kailon**. So that to comprehend the real conditions we must modify our ideas of matter and space (modify them almost to the extent of reversing our terminology.*

Emptiness has become solidity and solidity emptiness."

Modern physics would disagree, as it claims our universe is mostly *empty* space with atoms that exist of mostly empty space as well with a tiny core filled with solid particles made of grouped quarks and gluons that hold them so tightly together. Requiring very large and energetic instruments to break apart and analyse as separate particles.

This statement from Leadbeater is shared by the Tetryonics model, as the Tetryons are just folded 3D units of light in a sea of 2D interactions. The phenomena that creates these vacuities in space is most likely sound (the word), but was called the "Breath" of the Logos in older theosophical works. This breath creates the units of force that build everything in the universe.

"These units of force are the bricks which He uses in the building of His universe, and everything that we call matter, on however high or low a plane it may be, is composed of these and so is divine in its very essence."

There is still a lot to learn about ourselves and the universe we live in, in this article we just barely scratched the surface of how Nature creates all the things we see and feel in and around us on the physical plane of existence and how it arose from the One unit (Planck Quanta). Higher planes exist and sometimes Matter seemingly disappears (dissolves) into it, just to come back (coagulates) at a different time or place.

Thank you for reading and if you have any questions, comments or suggestions you can contact me via e-mail: kevinravensberg@gmail.com

About Kevin Ravensberg:

Finished a bachelor study of Engineering Physics in 2014 at The Hague University in Delft and currently working as a research assistant at the Netherlands Institute for Space Research (SRON). Here specializing on subjects like magnetic shielding, superconductivity, cryogenics and resonance circuits for space detectors.



Sources:

<http://www.ritmanlibrary.com/>

<http://www.scienceoflife.nl/tetryonics/>

<http://forallkind.tetryonictheory.com/athanasius-kircher>

<http://personal.sron.nl/~kevinr/>

[https://en.wikipedia.org/wiki/Schr%C3%B6dinger equation](https://en.wikipedia.org/wiki/Schr%C3%B6dinger_equation)

https://en.wikipedia.org/wiki/Walter_Russell

<http://www.philosophy.org/>

<http://publicdomainreview.org/2011/09/13/robert-fludd-and-his-images-of-the-divine/>

<https://www.scribd.com/doc/126276217/Robert-Fludd-Utriusque-Cosmi-Historia-vol-I>

<https://upload.wikimedia.org/wikipedia/commons/9/94/Giza-pyramids.JPG>

https://en.wikipedia.org/wiki/Sri_Yantra

<http://www.hermetics.org/pdf/occult.pdf>

(Coincidentally it is also the year of Light in 2015: <http://www.light2015.org/>)