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Alchemical and New Scientific approach to the concept of Transmutation.

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Foreword:

One of the most fascinating concepts to alchemists of all times is the Power of Transmutation. Many of us think of it as a natural outcome of a well-succeeded alchemical operation and it is also named as the “power” acquired by the adept which develops the tools to perform this operation. But as Paracelsus states: we are used to be satisfied knowing the name given to something instead of understanding its meaning.

Therefore as Alchemists, we must go forward: What is the real meaning of the so praised operation or alchemical power “Transmutation? What’s the signature hidden behind the concept?”

This article has the intention to approach the issue with an open mind, analyzing the case from two different prisms: from the eyes of an academic scientist facing the concept through a new emerging theory called Topological Geometro-dynamics (TGD); and from the eyes of an alchemist used to incorporate the concept into his/her daily operations.

You will perceive that truth comes from the eyes of the observer although the concept will always remain the same in a point where both sciences meet harmoniously at the present time.

The merging point is where the true adept shall focus his attention, perceiving that Reality, Life and all Universes is part of one single structure that once “discovered” indeed is capable of performing wonders and has infinite possibilities.

**Haec est totius Fortitudinis Fortitudo fortis, quia vincet Omnem rem subtilem,
Omnemque Solidam penetrabit.”**

Tabula Smaragdina

The author.

I – What definitions makes the concept of Transmutation possible?

1. Hierarchies

According with a new scientific approach emerging, the Universe is seen as a system of fully organized and systematic layers all interacting and merging with each other incorporated into the following basic concepts:

- Many-sheeted space-time defines a hierarchy of space-time sheets.
- There is a hierarchy of matters: ordinary matter, dark matter, and even more refined forms of matter becoming more and more quantal.
- There is also a hierarchy in which matter is at the lowest level and higher levels define mind as cognitive representations about matter, cognitive representations about these, and so on: entire hierarchy of conscious about being conscious about being..... Therefore the theory about physical system and theorizing mind become parts of physical system rather than being built by some strange mind outside of the physical world.

Physicists incorporating the concepts of a new order affirm that it is possible to define these hierarchies in a rather precise manner physically and mathematically. This is a fantastic approach towards an alchemical acceptance of such controversial academic topics. In the Alchemical world this classification represents the different levels of development (from Lead to Gold) in a general sense. It affirms ancient concepts translating them from knowledge of the past to present science.

The hierarchy of various kinds of matter contains in principle endless number of levels which can be regarded as increasingly refined forms of material existence. Let's take a look in a new scientific definition:

- At the lowest level is ordinary matter. By the prevailing materialistic dogma this is the only level which is accepted to exist in the academic Universe today.
- At the next level is dark matter whose particles differ in a subtle manner from those of ordinary matter so that dark matter can appear only in what is called Bose-Einstein condensates consisting of several/many particles (this is essential!) behaving as quantum coherent wholes and defining effectively particles of dark matter.
- One can imagine that also these Bose Einstein condensates of dark matter form further Bose-Einstein condensates: kind of "dark dark matter" for which Planck constant would be 2000×2000 (4 millions) times larger, and so on. We would have a hierarchy of more and more quantal and at the same time mental physical existences.

Back to our academic knowledge, super conductors and laser beams are basic examples of Bose-Einstein condensates. It is however not yet clear whether they can be regarded as "partially dark matter". Also atoms can transform to dark atoms and from Bose-Einstein condensates consisting of large number of dark atoms: super atom could be appropriate name for this. Kind of zoomed out or scaled up atom.

It is quintessential to have blobs of matter with quantal properties: only this allows understanding of the non-predictable and coherent behavior of living matter using quantum physics. Essential point is that Planck constant is much larger for dark matter than for ordinary matter (by a factor about 2000 or power of this). This means that length and time scales for coherent quantal behavior are much longer and quantity does not reduce to randomness.

Also the physicists in establishment are now perfectly aware that the “dark matter” exists simply because it creates gravitational fields. They do not have however any consensus idea about what it really is, how it interacts with ordinary matter, and how to detect it. This is the merging point where alchemy takes place: To my dear colleagues in the alchemical path is known that “Dark matter” corresponds to the Prima Mater of alchemists. Dark matter would quantum control the behavior of visible matter, serve as the intentional agents.

2. How dark matter and visible matter are related?

Dark matter controls the visible matter in **living systems**. Here an Arcanum is revealed in its simplest form. There are rather detailed models of how this interaction happens being developed by new scientists of the so called “new age sphere” in conjunction with Alchemists. And model for the simplest life forms as plasmoids which consists of simple rotating magnetic field configurations containing negatively charged plasma. The model explains all the basic aspects of bio-molecular and living cell and by this point it is very difficult to understand in the framework of ordinary chemistry.

Let’s take the case from alchemical point of view: Beneath all diversity we may encounter among the treatises of our ancient Masters there is one obscure identity: In order to perform the Magnus Opus they all start taking the substance named “Prima Matter”, subjecting it to series of operations and obtaining the final Product which we know as the Stone. This Stone, however named or described is always a substance which represents the perfection of the original first matter and its qualities are invariably such as pertaining to a living being, not an inanimate mass. In a word: the interaction can only be possible by Transmutation: taking a “dead substance” impure, powerless, valueless and transmuting it to a live, active and invaluable being. Here the First meaning of the concept comes forth: “Transmutation does not change the nature of its subject but brings it forth to its utmost state of manifestation.” Literally: Alchemy is the Science of Perfection.

3. The First Arcanum of Transmutation: Operations

3.1 Geometric time; experienced time and... the Alchemists’ time.

Time is the key of Evolution. Evolution is the sphere where perfection can be conceived. Therefore the detailed mechanism of intentional action (our "secret fire") involves in essential manner the new view about time which can be summarized by saying in the scientific view that there are two times.

- There is the **geometric time** of physicist which is like fourth space coordinate. We are essentially 4-dimensional beings. Our conscious experience and our cherished beliefs create the illusion that we correspond to single time=constant snapshot (aboriginals who have not learned Newtonian physics however live in dream time without any clear borderline between past, future, and now). For instance, when I remember something I experience my geometric past, I "see" to the geometric past which is part of me. Actually the mechanism of seeing is same as in case of ordinary seeing: the light in ordinary seeing is reflected from material body, now it is time reflected from the brain of geometric past. I can also directly re-experience past events: in this case I speak about episodic or sensory memories. Phantom limb in which person experiences pain in limb he has lost years ago is good example of this. I can also "see" to geometric future since I can predict roughly what will happen tomorrow and this is seeing to the direction of future in 4-dimensional landscape.

- Second time is the **experienced time** consisting of a sequence of quantum jumps, moments of consciousness serving as "elementary particles of consciousness". Usually these two times are identified but this is wrong. For experienced time there is no future, only past and now whereas for geometric time both exist. Geometric time is reversible: laws of physics with respect to geometric time would allow running the film backwards: this cannot occur with respect to subjective time.

In our conscious experience these two times are closely related and this explains why physicists have led to the wrong identification of these times.

As Alchemists, adepts and possessors of another line of concepts, I'd rather seek some hints at what is possibly the earliest surviving alchemical manuscript, "Isis the Prophetess to Her Son Horus" found in the Codex Marcianus, a medieval (11th century) collection of Greek fragments. We are now prepared to see the nature of the transmutation at the core of alchemy: Transmutation is not a single tool or consequence involving a personal or local effect to our environment. It is a three-fold operation, involving the nature of time, and "the times", in a completely unique way.

As the secret was passed down through the various forms, the information fragmented. In this way, some initiates received only the internal and transformational processes without the full understanding of how the parts related to the whole of the ancient science. The most guarded secret was that of time itself, and the secret of all secrets, according to the Builder texts at Edfu, involved the beginning and end of "time."

This has to be revealed to each one of us. But Ancient Masters have given us a full hints about it: Law of the Universe number 1: You Exist! Pay attention to the revelation herein. This leads us to ONE time sheet where all transmutation is possible in literally infinite ways. The alchemist must "move" to this sphere in order to accomplish the Great Work. Only within this time the Prima Matter can be manipulated at Will.

3.2 Time mirror mechanism as a mechanism of intentional action

Back to scientific layout: One can say that dark matter as intentional agent expresses its desire about something to happen by sending a signal to the direction of geometric past. Dark matter is like a boss expressing its desire to a lower level boss who in turn does the same to even lower level bosses and ultimately these sub-desires reach those who must really do something. Their signals expressing a desire is what physicist calls "**phase conjugate laser beam**" consisting of negative energy dark photons. Negative energy is equivalent with the property of traveling backwards in geometric time.

In geometric past a **time reflection**, geometrically completely analogous to ordinary reflection from mirror, occurs and the beam is reflected back in time from "time mirror" as a positive energy laser beam of dark photons. This beam interacts with ordinary matter and is responsible for the desired physical effects. In case of brain patterns of nerve pulses initiating some motor actions could be the outcome.

What makes this mechanism so elegant is that there is no delay in geometric time: system can react instantaneously by initiating the action already in the geometric past. Sounds certainly science fictive and even bizarre if one identifies geometric and experienced time: to react to a dangerous situation already in geometric yesterday!

Time mirror mechanism defines also a mechanism called **remote metabolism**. Suppose some part of body needs energy immediately (crises) so that there is no time to send nerve pulses to brain which would make some bureaucratic decision making and possibly decide to accept the

application of the body part and send commands initiating the transfer of energy. What the body part can do instead is to send negative energy dark photons to the geometric past where a system able to receive this negative energy is. Since energy is conserved the body part gets positive "recoil energy". In a more refined arrangement the negative energy signal serves only as a request inducing emission of a large positive energy signal from the geometric past: all this happens practically instantaneously and with extreme flexibility.

Alchemical approach; the mirror effect is at place. By working in the correct time sheet we learn to experience the fact that physical reality is literally "nothing". NO THING. What we call gross matter is simply the reflection of the vibrations sent by the primary system of existence. This "mirror" of complex and holographic functioning systems that is the Core and focus of the mass becomes the Alchemist's playground. Perceiving the statement gives an understanding of all scientific approach above. A simple analogy: look at your mirror and smile. How long it takes for the reflected image to "smile back" to you? Does it occur in the future? Would it be any reflection if you were not standing at the front of the mirror? Could the reflection smile at you first?

The Operation of the Sun involves and requires the understanding of an ultimate truth about time and existence. It is without exasperation the simplest and most fascinating concept included in our line of study.

4. Transmutations and nuclear alchemy

For the ones who still assume that transmutation in alchemy means the change of chemical properties, let's take a look at it:

Chemical properties certainly change if the atomic nuclei change their nuclear charge determined by the number of protons in nucleus (there are also neutrons). This process is now rather convincingly shown to occur in cold fusion at room temperatures. This is impossible according to the standard nuclear physics dogma and this raised a violent opposition so that only now cold fusion science is getting the status of consideration.

What would make possible transmutations would be transformation of ordinary matter, such as Palladium used in cold fusion experiments, to what can be called "partially dark matter". Atomic nuclei contain protons and neutrons. In cold fusion experiments protons inside the nuclei of Palladium (Pd) target bombarded by ordinary deuterium (D) nuclei would be transformed to a dark matter phase in which they have a large value of Planck constant (at least about 2000 times larger than normally).

This means that **dark protons** have a large Compton length (that is quantum size) of order atomic size .1 nanometers instead of ordinary proton size about.000001 nanometers. These dark protons overlap and combine to form larger units, kind of super protons. The outcome blobs of dark proton matter consisting perhaps of protons of hundreds or thousands nuclei. For the **neutrons** of Pd nuclei this need **not** happen so that it is better to talk about partially dark matter.

In this phase protons can be said to form a single super proton, and one cannot say which proton belongs to which nucleus. Therefore, when the transition to ordinary matter occurs, the protons can be shared in a new manner. Some nucleus gets more protons than it had as Pd nucleus and some gets less. **Completely new elements can appear.**

Cold fusion reaction is different from this and is made possible by the absence of strong repulsive electromagnetic interaction between deuterium nuclei and dark deuterium attached to Pd since the ordinary proton of deuterium nucleus is at different space-time sheet, in a "different world", than the dark protons of target D attached to Pd and Pd nuclei.

This is only a part of the story and transmutation is perhaps the more interesting concept since it would make living matter a “natural alchemist” able to some degree to synthesize the nuclei it needs. Nuclear transmutations have been indeed observed in both experiments as well as in living matter.

5. Also “electronic alchemy” might be possible

Many-sheeted space-time allows also a possibility of chemical transmutations in which atomic nuclei are not changed but the electronic clouds of atoms change. This hypothesis can be proposed as the original explanation of ORMES.

This "electronic alchemy" could be achieved by dropping valence electrons of the atom from atomic space-time sheet to some larger space-time sheet; presumably also the dropping of the same number of protons would be required. These dropped protons and electrons would behave like dark matter. This would mean that the atom would behave like an atom with a full electronic shell (noble gas without practically any chemical interactions with respect to ordinary chemistry, but somewhat like the original atom with respect to dark matter interactions.

Also other options can be imagined and I believe that there is a very rich spectrum of possibilities is waiting its discovery but it takes time before theorists are mature to take seriously the possibility that we understand only rudiments of the forms of matter in every day length scales.

Conclusion:

For us, Alchemists is indeed important to understand that the concept of Transmutation is feasible and has been seen as a topic worth of real experiment and academic interest. We look forward to follow up their developments and hope that it will lead to a more comfortable interaction between the so controversial worlds that divides the brilliant minds.

Although, as an Alchemist, I'll finish this work with an alchemical approach, seeing the Universe in simple concepts (after all simplicity is all that it is in the end of the multi-complex labyrinth of this marvelous Path we choose to follow.)

The guidelines for understanding Alchemical transmutation are:

- 1- There is One Power named transmutation and it is the key of all.
- 2- It is the accomplishment of the Great Work and the operation to the Stone.
- 3- Adepts Can and Will perform it.
- 4- Time is the secret agent.
- 5- Evolution is the missing scientific link.
- 6- “To make gold, you must have gold”
- 7- Transmutation is the ultimate power of the Adept Alchemist.
- 8- It affects ALL levels of what we know as REALITY.
- 9- It brings forth eternal Perfection
- 10- Change is the only constant of the full Operation.

“Sic Mundus creatus est. Hinc erunt Adaptationes Mirabiles, quarum Modus est hic.”

Tabula Smaragdina

End.

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