

Creativity process is Charge Neutralization Process

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Abstract— *Charge Neutralization Process (CNP) unifies all forces in nature, creates matter and life and constantly keeps the whole universe in an equilibrium state. Electron and proton are elementary particles which estimated decay time is 65 billion years, what is the other name for eternity. This article argues that universe is governed by unique process - Charge Neutralization Process – CNP. CNP constantly acts through whole universe, forcing elementary particles (electrons and protons), to form and sustain electrically neutral material products, listed in Periodic Table of Elements.*

After Hydrogen formation, two or more **electron- proton pairs** were forced to establish electrically neutral structures (matter creation). That was not possible without additional particle-like energy constructs. CNP created neutron(s)-**temporary particles**, which were added to the nucleus structure in order to establish neutral products.

CNP unifies all forces, acting on the every level of dimension and complexity : atomic, molecular, cellular, planetar, galaxy,... creating neutrons, RNA, neurons, neuron bundles (brain), our planet core, and so on.

Elementary particles Electron has toroidal structure (2, 5) consisting of $\lambda_e/\lambda_x = 19206$ electric energy ($E = hf$) rings ($E = \hbar\omega$) - photons (λ_e is electron gravitational mass wavelength, λ_x is Duane-Hunt wavelength). Proton has the same structure as electron , but different mass, $m_p = 1836 m_e$, consequently; 1836 time more rings (photons).

Electron model is shown on Fig. 1

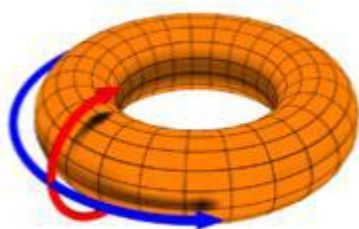


Fig. 1

Under the specific condition, similar to Big bang description, electron - proton pairs, formed hydrogen atoms.

In normal living condition they last essentially forever. Electron (and proton) fine structure is established from two (electric and magnetic) trapped and locked vortexes in resonant state (5). In hydrogen atom, electron-proton **energy circulates on such way that overall atomic charge is always neutral**. As charge is directly dependent on vortex energy path (space energy distribution) it is obvious that hydrogen neutrality is maintained by adjustment of proton energy circulation path.

How electron - proton charge can be neutralised?

Electron and proton fine structure dictates what must happen to establish lasting charge neutral product. Proton energy circulation length is 1836 times longer than electron, what suggest that proton energy circulation length has to be adjusted („diminished“) to the electron energy circulating length. That is why proton is forced to the center of electron and that is criteria how nucleus and atom radius are determined.

If hydrogen atom is exposed to some source of neutrality disturbing energy (that energy will be sensed by electron thanks to the its position), which can not be compensated by proton circulation path adjustment, CNP will generate additional energy construct – **neutron**, which is sum of

electron and proton energy, concatenated in unique entity, placed in nucleus, forming deuterium, hydrogen isotope. Neutron function is to add/subtract needed amount of energy (charge) to sustain overall atom neutrality. If disturbing energy continues to violate established deuterium neutrality, CNP will add another neutron, forming tritium.

Free neutrons decay in 885 ± 15 s (1)

Neutron decay refers to the process where a free neutron outside the nucleus breaks down into **a proton, an electron, and an antineutrino**. This decay occurs due to the neutron's instability and has a very short lifetime.

We are also considering the neutron decaying to two or more particles, at least one of which is a new (dark) particle, from outside of the Standard Model, hence the name **neutron dark decay**.

If disturbing energy has pulse shape of high energy level, CNP will move hydrogen electron from ground level to the first upper energy level. Radius of upper electron energy circulation level is greater than ground radius, in order to diminish influence of incoming disturbing energy which is manifested as electron charge fluctuation. When such disturbance vanishes, electron will fall down on previous energy level, emitting amount of energy (photons) which caused change of his orbital position (energy conservation).

Matter

From the PTE we see that atomic numbers increase steady, one by one (from 1 to 118). How we can decipher neutron number within matter atom?

Number of neutrons is determined by CNP, based on atom **electron configuration**. When we look at the matter atom(s) we „see“ electrons only, as protons and neutrons are deep inside (hydrogen electron and nucleus radius ratio is 10^5). For arbitrary number of electron - proton pairs, CNP will **create as many neutrons as needed** and add it to nucleus, resulting in atom neutrality (for example, Mercury atomic number is 80, but has 120 neutrons). Matter atoms, once created as neutral, are the subject of intensive CNP surveillance. Existing matter in whole universe is **simultaneously** checked and maintained in neutral state with **Compton frequency rate** (7.81×10^{20} Hz) !!! In case that incoming energy violates atom neutrality, making an impact on valence electrons, CNP will make reaction by adjusting neutron(s) – proton(s) circulation path(s) within nucleus, maintaining once established charge neutrality.

All matter products, (atoms, molecules, compounds, life cells, planets, stars, galaxies, universe) are the subject of CNP.

Earth's magnetic reversal is dictated by CNP.

Life

Single cell organisms are made of materia. All of them have the same principal structure : membrane, internal liquid and nucleus. **Function of cell's nucleus is the same as function of nucleus in atom**: it contains such matter products whose function is to establish neutrality of its own cell membrane, which is exposed to the outer world. When cell is the subject of incoming energy, which we can value as disturbing (we refer to matter description above), membrane valence electrons will change their charge, and it will be compensated (neutralised) by nucleus reaction (modification of neutron- proton energy circulation path in case of atom) , creating pre-RNA structure. Pre-RNA is made by CNP, principally in the same manner as neutrons, with the same purpose: to establish and maintain charge neutrality of membrane. In this case CNP acts on higher level of complexity.

When the disturbing energy stops (one example is sunlight energy during night) , existing pre-RNA becomes INTERNAL source of membrane valence electrons disturbance. CNP solution is : internal pre-RNA will be neutralised by conjugate bases (**A-T, C-G**), **thus creating pre-DNA**.

In process of evolution, at some point in time, pre-RNA, turned to the RNA and consequently to DNA structures.

Multicellular organisms are subject of CNP as well, on the higher level of complexity.

Sperm cells are electrically negative while egg cell is positively charged. They are subject to the CNP, on the very same principle as electron and proton during the hydrogen formation. Fusion of egg and sperm (fertilisation) is in fact CNP (crossover), resulting in neutral cell – zygote. When zygote reach threshold energy level it will undergo to division phase. CNP function is to ADD corresponding bases to RNA, forming DNA, where, as collateral gain, we get reproduction.

In the case of homo sapiens, skin is membrane which divide body from external environment. Through evolution process, CNP created stabilisation vehicle : **neuron**. Brain function is equivalent to atom and cell nucleus function : establishing and maintaining membrane neutrality. That neutrality is realised by neuron's function.

Brain

Brain is memory made of neurons. All body neurons end up in brain. During the evolution process, neurons were organised according to assigned function (visual cortex for example). **Brain does not possess any processing ability**. Brain function is to store electric image generated **externally (our senses) and internally under free will (our desire)**. Brain **electric image** is the source of

neurosignals which function is to establish charge neutrality of violated valence electrons. Brain activity is under CNP's permanent dynamic control and influence.

Senses

Our senses emerged as CNP collateral gain. Let's take sense of sight. At the RNA time of life emergence, some of the outer membrane cells were more light sensitive, compared to others. That group of cells were modified by CNP as the consequences of higher light sensitivity. During replication, these modifications are transferred and improved from generation to generation (evolution) so some sort of pre-eye organs appeared.

How did nature decide to create sense of sight as we have it today?

There was not any knowledge regarding the structure and construction of visual cortex. DNA (RNA) was not the source of that knowledge. DNA was built from RNA in neutralisation process (CNP) as up to dated history of all sorts of cell's membrane valence electrons violated energy inputs. DNA role in heredity process is clear, simple and unavoidable. The final goal, in sense of sight creation, was, to build such mechanism which was able to successfully neutralise all eye's valence electrons, which are parts of rods and cones, when light enters the eye. Light has wide frequency spectrum, each and every of them carries specific amount of energy ($E = hf$), which change valence electron charge, and, as a consequence, their neutrality is violated. In order to respond to **all** neutrality violation, CNP produced (evolution is time scale) universal frequency response mechanism- visual cortex which is connected by optic nerve with the eye.

What is the function of visual cortex?

Visual cortex generates electric signals as a response to incoming frequencies which, as we know, causes eye valence electrons charge to change. Response signal's frequency **MUST** be equal to the input frequencies in order to cancel **that** electron charge change. That is the reason why we see red as red (David Chalmers, consciousness hard problem). So, our sense of sight is collateral gain of CNP. Our brain does not **CONTROL** sense of sight, as source of CNP is out of our body and mind. We can close our eyes, but we can not change the content of incoming light energy.

The same mechanism explains all other senses.

Movement

In order to change our position we have to move. Who issues the order to our muscles how to move and when to stop? Every part of our body has many nerves which are neurons of different length and construction. Neurons, as

we already explained, have the same function as neutrons in atoms.

Brain is the place where all neurons migrate. Under the control of our mind, in certain part of brain we generate request for movement (free will). That request is electric image of the complete motion path (where we want to move and how we want to get there). That internally created electric image causes violation of dedicated valence electrons in our body, which will be forced to change their physical position what, as a final result, will cause cancellation of internally created image.

Recapitulation

The only long living particles in the universe are electrons and protons. In fact, they are eternal in normal living condition (temperature, pressure,...). If they are exposed to the high energy environment, like in CERN, they will be broken into indefinite energy chunks, various group of photons.

How electron and proton can manifest their charge, in fact, forever? Is the perpetuum mobile right explanation? Hydrogen atom can not be simulated on any digital computer, not only because of low processing power, but due to Turing halt problem, which Kurt Godel, with his incompleteness theorem, definitely marked as unsolvable.

Will quantum mechanics help us?

It seems that it can. The immediate solution seems to be quantum computer. It performs **ALL instructions simultaneously**. Seth Lloyd, MIT, describes quantum computer design as hacking the universe. On the question „ Is the universe in fact giant quantum computer „, Seth answer was „, It could be „.

Let's go hundred years back in time. It was proved that light travels forever, without any attenuation. What kind of material (ingredient) is empty space? It is some sort of superconductor?

Physics Nobel prize winner for 2004. Frank Wilczek, in his book *Lightness of Being*, describing empty space wrote that it is: “ The primary ingredient of physical reality, from which all else is formed, fills space and time. Every fragment, each space time element, has the same basic properties as every other element. The primary ingredient of reality is alive with quantum activity. Quantum activity has special characteristics. It is spontaneous and unpredictable. And to observe quantum activity, you must disturb it. The primary ingredient of reality also contains enduring material components. This makes the cosmos a multilayered, multicolored superconductor. The primary ingredient of reality contains a metric field that gives space-time rigidity and causes gravity. The primary ingredient of reality weighs, with universal density“.

CONCLUSION

Universe is ether based , single instruction quantum computer .

That instruction is Charge Neutralization Process – CNP .

Universe has not Turing halt problem.

Universe ends processing when neutralization is complete .

REFERENCES

- [1] S. Doe, "Neutron Dark Decay" *arXiv*, vol. 2306.11349, Jun. 2023. [Online]. Available: <https://arxiv.org/pdf/2306.11349>.
- [2] Consa, O. (2014). Helical model of the electron. *The General Science Journal*, 1.
- [3] Zakaria, H., Kamarudin, D., Fauzi, M. A., & Wider, W. (2023, March). Mapping the helix model of innovation influence on education: A bibliometric review. In *Frontiers in Education* (Vol. 8, p. 1142502). Frontiers Media SA.
- [4] Câmara, A. S., Kubalová, I., & Schubert, V. (2024). Helical chromonema coiling is conserved in eukaryotes. *The Plant Journal*, 118(5), 1284-1300.
- [5] Gryziecki, G. (2023). The Toroidal Fine-Structure of the Electron (Republished from GJSFR). *Journal of Aetherometric Research*, 3(4), 1-8.
- [6] Stávek, J. Spin interpreted as the angular momentum curvature, electron g-factor interpreted as the ratio of toroidal torsion and curvature, unlocking of the fixed Planck constant h —new tests for old physics. *European Journal of Applied Physics*, 3, 61-66.