

Underground state of the hydrogen atom

The interesting news about BlackLight Power Inc., Dr. Randell Mills were published in Infinite Energy, volume 5, Issue 29, 2000. The "hydrino" or the hydrogen atom in the "underground energy state" is something similar to special state of matter that is necessary for matter to work as energy transformer, according to N.Kozyrev's theory of stellar matter. The density and other parameters of stellar matter in optimal mode of transformation "timeflow" energy to heat energy were calculated.

From the other hand, the Kozyrev's conception of energy transformation assumed the type of energy that is absorbed by a star as "the flow of time" and other form of energy is the electromagnetic wave (heat radiation). I have to note the possibility for energy transformation between longitudinal plasma wave and electromagnetic wave, that is known from plasma physics. By this analogy, I suppose the possibility for similar processes in vacuum where the plasma is not special gas discharge but it is the process of virtual pairs electron-positron creation and annihilation. You can take the textbook for plasma frequency formula, approximately it is $f = 9N^{0.5}$ (Hz), where f is the frequency (Hz) and N is the concentration ($1/m^3$).

Next step is calculation of correlation between the frequency of virtual dipoles for well-known Compton's wavelength, and concentration of virtual dipoles N . I am sure you'll test it just now to see the results about density of energy in vacuum. It was published many times but now we have another task.

So, we can assume the mechanism for energy transformation in any place of vacuum as transformation of longitudinal wave in plasma that is made of electron-positron pairs, to electromagnetic radiation. It is real free energy source of energy in any place of space, if there is any matter here or not. In stellar matter or in any plasma matter the frequency of electromagnetic radiation is depend of the concentration N but the principle is the same. I suppose Alexander Chernetsky's self-generating discharge system, that was demonstrated as over-unity one, is the same special plasma oscillation process to transform one type of energy into another type of energy and its wave-length can be planned for certain device as resonance frequency. I calculated it for hydrogen pressure $p=10^{-6}$ (Atm) and concentration $N=3 \times 10^{16}$ ($1/m^3$), the wave-length $L=0.2$ (m). It is possible to design this resonator and to test the idea of energy transformation in any laboratory. I'd like to work on it also.

What about "hydrino" and how it can be working in "underground energy state"? I have not information about Dr. Mills' technologies and here is only my understanding of the problem.

So, the hydrogen atom is simplest design of micro world and its main parameter is Bohr's radius $R=0.529177... \cdot 10^{-10}$ (m). The wave-length for it is $L=3.323... \cdot 10^{-10}$ (m) and the curvature is equal to reversed wave-length $1/L=3.00... \cdot 10^{10}$ ($1/m$). By my theory, it should be just a whole number, and it is almost equal to 3. Why the "law of whole numbers of curvature" is working for particles, for planets, for DNA molecule, i.e. for any natural elementary processes? We are calculating some whole number of actions, i.e. the number of periods as number of elements to produce the wave-length of some object. Let's see how it is connected with notion of the Time.

One more Russian name: Dr. Spartak Poliakov. In 1991 he published his book about experiments in "gravitonics", it is the new science to create the antigravitation drive. His understanding of the electron is something new: it is self-closed "circulating" photon and the photon is not only one period wave but it is about 137 periods of the wave. I hope you know this constant. So, the energy of this electron can be calculated,

by my opinion, as $E=137hf$, where h is Plank constant, f is frequency. Also we know the energy of some mass is $E=mc^2$. Now there is the formula: $137hf=mc^2$. The frequency $f=(137mc^2)/h$. It is the frequency of inner electromagnetic wave of the electron and the electron is produced of this wave. There is only several constants between mass M and frequency f : $M=f(137h)/c^2$.

I named this constant as "**chronal**" constant **$137h/C^2$** .

The analogy you can find in theory of Prof. Alexander Abian, USA: the Time and the Mass are two equivalent notions.

Now let's take the electron mass $9.1...10^{-31}$ (Kg) and known constants. The frequency should be about $f=9.01...10^{17}$ (Hz). What is the reversed wave-length (the curvature)? Yes, it is the same element of the space $1/L=3.00...10^{10}(1/m)$. If some unit of length is not 1 (m) but it is $A=10^{10}$ (m), the curvature for this case can be presented as the whole number 3 (1/A).

Why the unit of space that is corresponding to simplest atom of hydrogen (from known radius of electron) and that is corresponding to calculated Poliakov's photon structure of electron, is described by some curvature that is equal to 3 (1/A)? The conclusion is very simple: the unit curvature 1 (1/A) should be the description of some process that is corresponding to wave-length $L'=3L$. It can be described as three planes of electron orbit, or as the three phase structure. There is similar to known topological structure for DNA molecule triple knot..

The next step is moving us back to N.Kozyrev's theory and experiments. He calculated so called "velocity of time flow", i.e. the rate of changes for any process when some "reason" is changing to some "effect". This velocity is equal to 1/137 of the C , i.e. the photon is moving in 137 times more quickly than the "time flow". I hope now you can see what is the correlation between Poliakov's inner structure of the electron and Kozyrev's understanding of the Time nature.

Any mass particle, if its structure is similar to Poliakov's electron, is small self-closed space where some corresponding photon is circulated. The analogy is the "Einstein ring" of light that can be detected in experiments with heavy rotating cone if a laser beam is directed to the cone. The effect can be explained as Ether self-closed vortex, where the photons of laser beam are trapped in closed trajectory. For curvature $3 \times 10^{10}(1/m)$ the photon can be curved to electron.

The idea of "underground energy state" that is following from these conclusions now can be presented as the conception of time rate control or space-time engineering. By this way, I suppose new kind of materials can be produced if the structure of "new electron" is planned for our goals. If it is the hydrogen atom of "underground energy" so its radius is changed and its local space-time is different from our one. Some analogy with discrete energy levels in "underground area" can be predicted also. Energy interaction between "hydrino" and normal hydrogen atom should be asymmetrical since energy is notion of the Work per Time but the time scale for this case is different. By this way the power can be extracted from the interaction.

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