

From Analogue Type 'Water Memory' to Digitized '3D wave'

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Abstract: Paradigm shift is initiated from unexplainable fact with current paradigm. This time it could be water memory which cannot be explained with current science focusing on the structure of water by hydrogen bonds which last only picoseconds scale.

Science of new paradigm will be introduced in this article. New paradigm explains water memory with 3 dimensional wave (3D wave) inherent to matter. 3D wave is faster than speed of light and exists in the area of imaginary number. 3D wave can be separated from the matter to water. 3D wave in water as separate entity can be interacting with other matter.

Beyond analogue type of water memory 3D wave can be digitized and expressed in 2D space. Digitized 3D wave shows the functionality of original matter. 21st century should be an era for new paradigm beyond materialism.

Keywords: water memory, 3D wave, digitization of 3D wave, electricity purification

1. 'Water Memory'

Although quantum science showed that a wave part of matter exists, current science focuses only on the particle component of matter. The paradigm of current science is based on particle science, which is materialism. The 21st century needs a new paradigm beyond materialism. The new paradigm will be initiated from the unexplainable fact with materialistic view. In this editorial we start from 'water memory'.

'Water memory' was utilized in traditional homeopathy and scientifically first investigated by Benveniste and his colleagues using homeopathic dilution (vigorously shaken by hard strokes at each dilution) [1]. As biological reaction in the absence of any effective molecules cannot be explained by the conventional theory which focuses only on the structure of water of which the hydrogen bonds last only picoseconds, the results of Benveniste and his

colleagues sparked many following investigations. The most interesting one was the research performed double blind by 4 independent European laboratories in 2004 [2]. The purpose of their double blind test was to disprove 'water memory' but instead proved that it was, in fact, true.

2. Recent Scientific Investigation of 'Water Memory'

Other than time consuming homeopathic dilution, 'water memory' could be reproduced with electronic method using 7.8Hz, resonance frequency of earth. Subtle magnetic field generated by 7.8Hz frequency could activate and transfer the wave part of the matter to water. With this device, memorizing ability of water was investigated in my laboratory. P53 protein functions as a potent tumor suppressor. If the molecular structural information of P53 (this wave part of the matter is expressed as '3D wave' throughout this article, as it decreases

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thermodynamic entropy and maintains 3D structure unlike spreading electromagnetic wave) could be transferred to water, various strategies could be possible. The water to which 3D wave of P53 was transferred actually inhibited cancer proliferation, showed anti-metastasis, and increased apoptosis [3].

Nobel laureate Montagnier and colleagues also showed that DNA polymerase could even recognize the 3D wave of specific DNA sequence of HIV transferred to water and produce new DNA copies [4], suggesting that 3D wave of DNA is the physical entity recognizable by DNA polymerase. They also used similar device to ours operating on a 7.8Hz frequency to transfer the 3D wave of the DNA.

3. 3D Wave of Matter

Benveniste thought that there is a wave inherent to the molecule. When the wave propagated from molecule is transferred to a cell receptor through water, the wave can induce resonance of a receptor initiating intracellular signal transmission. The inherent wave of matter is not a new concept. In 1924 de Broglie proposed that every matter has an accompanying wave. De Broglie further suggested that the wave inherent to matter is constantly moving through the matter guiding the trajectory of the particle, and called it as pilot wave.

In 1961, Eisberg showed by calculation that the pilot wave is much faster than the speed of light. The pilot wave of a mass particle moving below the speed of light should be faster than the speed of light by following equation:

$$w = \frac{c^2}{v_p}$$

w : speed of pilot wave,
 v_p : speed of particle,
 c : speed of light

For a positive mass particle which is travelling at $v_p < c$, we see a set of waves moving faster than the speed of light. According to Tiller, pilot waves are always constantly moving through the matter from the rear to the front, just as occurs in water waves, directing the mass particle. Calling such wave as 'information wave', as it does not spread out like electromagnetic wave and rather decreases thermodynamic entropy (negative entropy), Tiller suggested mass particles and information wave interacts so as to be experimentally operational. Pilot wave is expressed as 3D wave in this editorial, as it forms a field with 3D structure by constantly moving around the matter

4. 3D Wave Explains 'Water Memory'

According to Tiller, the pilot wave of the matter could be transferred to water by physical stimulation as in homeopathy. If a pilot wave separated from the matter to water still constantly moves faster than speed of light, it would not spread out and decrease thermodynamic entropy. If anything which is not a particle does not spread out and affect other particle, it should be carrying out its effect as a field. Bohm expressed this field characteristic of pilot wave as 'quantum potential' which operates as a hidden variable.

The structure of the field created by pilot waves in water must not be random. It would be reasonable to think that the field is similar to or at least related to that of the original shape of the matter (expressed as 3D wave).

The hypothesis regarding water memory could be summarized as the following: The 3D wave of the molecule transferred to water could exist as an entity with a similar field structure to the original

molecule and interact with a cellular receptor, and then intracellular signal transmission could be initiated, which explains 'water memory'.

5. Imaginary Matter

If anything is faster than the speed of light, it should have negative mass according to special relative theory which does not allow speed beyond the speed of light.

$$m = \frac{m_o}{\sqrt{1 - v_p^2/c^2}}$$

where m_o is the total relativistic mass and v_p is the velocity of the particle

According to Dirac, space is full of particles with negative energy and negative mass (which is imaginary mass, Dirac sea of vacuum). This corresponds to the area of imaginary number. The world consists of real area with positive energy and imaginary area with negative energy. When enough energy is given to the particle with negative energy in imaginary area, it jumps to real physical area, leaving a hole in imaginary area. A hole in imaginary area corresponds to anti-matter. Only infinitesimal part of space was converted to matter.

Matter consists of a real part (physical area) and an imaginary part. The imaginary part of the matter (called imaginary matter in editorial) could not exist like particles in the physical world but carry out its effect by creating a field by constantly moving around the matter. When the imaginary part was separated from original matter in water, it still could interact with other matter as demonstrated in 'water memory'.

Combining both pilot wave theory and the Dirac sea of vacuum, it could be suggested as the following: Matter consists of both a real part and a corresponding imaginary part which is faster than

speed of light (pilot wave or 3D wave in this article). The imaginary part of matter could be separated from the matter and interact with other matter (or rather the imaginary parts of other matter) [5].

If the interaction between imaginary matters is possible, it might be even possible to hypothesize that the real part of matter provides a frame and the imaginary parts of the matter provides function.

6. Digitized 3D Wave in 2D Space

Benveniste further showed that water memory could be recorded to computer by passing white noise through a solution. The recorded and digitized sound file could be transferred through email to induce physiological reaction in the far distance. As a physiological reaction could be regenerated even from the computer recorded digitized signal, he developed his theory under the name *Digital Biology* [6].

The 3D wave of the substance cannot be detected by current scientific techniques. However, the 3D wave of a substance could be accessible to human senses when it is modulated to human familiar wave pattern such as sound or light. Benveniste used white noise to pick up the 3D wave of the substance. We preferred the visualization over the sound.

3D wave transferring device using a 7.8Hz frequency and strong light source with visual range were used to digitize a 3D wave of the substance. The computer recorded digitized signal of the substance could be expressed as a visual shape in 2D space by way of printing to plastic card or other flat surface, which should be much easier to use and have wider applications over the white noise .

Digitized 3D waves expressed in 2D space could also induce the same physiological reaction as that

of original substance. For example, a plastic card containing a digitized 3D wave of a medically effective substance such as drug or hormone could be carried close to human body to induce physiological effect. It could be also possible to attach card on a water bottle to transfer 3D wave of the specific substance to water. Such digitized the 3D waves could be expressed in any 2D space such as on clothes and on walls to affect the environment. Experimental results with digitized 3D wave have been published at this issue *Journal of Vortex Science and Technology* [7]. Digitization gives great advantage over analogue type water memory, in that it stops deterioration, while 3D wave of the substance transferred to water gradually disappears depending on time.

7. Digitized 3D Wave Connected through Holographic Space

How could a printed shape on flat surface elicit the same biological reactions as the original substance? It may be possible that the digitized 3D waves expressed on plastic card are connected to the original substance through holographic space to form a 3D structure around the card.

Many physicists are suggesting a theory that whole universe is interconnected by holographic principle. In holographic space all points are equal to all others. It is meaningless to separate some position from another. There is no locality in a hologram (non-locality). Every particle in holographic space is interconnected in superluminal and super-spatial way creating non-locality.

It is suggested that digitized 3D wave expressed in the common plastic card is commanding to the space itself (infinite sea of particle with negative mass with superluminal velocity) to form the 3D

wave of the original substance around the card through hologram [5].

8. Digitized 3D wave Modulated to Electricity

A digitized 3D wave of the substance could be modulated even to electricity and could be used to change the characteristic of electricity [5]. When a digitized 3D wave of the substance which is known to neutralize electromagnetic waves has been modulated into electricity, the harmful nature of electromagnetic wave is changed in beneficial way to human and every electrical device could be used as a generator of a specific 3D wave of a medically effective substance.

Various effects could be expected from electrical devices by the modulation of digitized 3D waves to electricity. Brain waves stabilize while watching a computer monitor. It has been also noticed that symptoms such as shoulder pain or eye congestion occurring from long time computer watching disappeared.

Electrical cooling system does not disturb the balance of an autonomic nervous system and thus does not make people feeling tired. It is also observed that food made by electrical cooker or microwave tastes better and freshness is maintained longer. Especially, mobile phones give people good feeling and do not get hot even after long usage. If mobile phone does not get heat, it means that battery can be used longer without losing energy as useless heat.

9. Another Explanation of Water Memory: Vortex Theory

So far in this article I have assumed the existence

of inherent wave part of the substance (3D wave) which could be separated by physical stimulation and exist independently in water and function like the substance.

In contrast Meyl suggested that every wave including electromagnetic wave could be rolled to vortex and then act like particle [8]. According to Meyl, everything is in wave state with only differences in the shape of the wave whether it is open or closed form (vortex), in which particle state is a highly condensed vortex, and thus, particle and wave state of single substance does not coexist, although their proportion is in equilibrium as a whole.

Vortex theory could also explain water memory, of which closed form of wave from the matter (vortex state) shows particle-like characteristic inside water. However, vortex theory cannot explain the effect of digitized 3D wave expressed in 2D space. It might be possible that vortex itself could be carrier of 3D wave of the substance.

10. Light in the beginning!

Matter could be converted to energy following the famous equation, $E=MC^2$, and vice versa. In the beginning it is believed particles were formed from energy. After the first particles (elementary particles) are formed, more complex materials follow, finally leading to life. Modern physics focus on the formation of the particles from energy. However, they do not ask why such relations take place leading elementary particles to life in the direction of decreasing entropy.

There might be two kinds of lights in the beginning. The visible (detectable) light that forms matter and is confined to the speed of light, which is the light we have known. The other light is the

inherent wave of the matter (3D wave) described in this editorial which is faster than the speed of light and is always constantly moving through matter from the rear to the front, directing the matter. 3D wave of the molecule can be separated from the matter and exist as a separate entity and interact with other matter. Space itself is full of 3D waves leading to relations.

Matter is always accompanied by a 3D wave. However, the 3D wave can exist as separate entity separated from the matter. We need to ask which one is the first light in the beginning.

11. New Paradigm beyond Materialism

If the interaction between imaginary matters (3D wave) could lead to cellular signal transmission, it does not need physical contact between molecules. If the interaction between matter and imaginary matter, or between imaginary matters is fast and good enough to induce cellular signal transduction, there is no need to rely on the materialism which cannot explain fast biological reaction.

Now we have seen that biological reactions could occur without the presence of materials. There are enough facts which require new paradigm out of materialism. The 21st century should be an era for new paradigm beyond materialism.

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