

A brief overview of the new order in the Universe

By Krunomir Dvorski

This article redefines Universe and announces the Flipping theory based on the Flipping transformation and Ohm's law of the Universe. All of them provides a new view of the terms such as space, time, singularity, black hole, string, mass of observable universe, and so on. The Flipping theory is not yet proven but raises new ways for exploring the Universe.

The basic postulates:

- *Universe is indestructible Trinity two fundamental spaces and barrier between them.*
- *In the material world there is no singular point and infinity. Any attempt to create it, results in partial disappearance of matter, space and time.*
- *The last measurable evidence of reality is partial disappearance of matter, space and time. The first found evidence of reality is beginning or partial birth of matter, space and time.*
- *Between birth and disappearance is our real world (space of reality). Between disappearance and birth is untouched world (space of property).*
- *Space, time and mass are a consequence of the uncertainty principle and relativity, driven (powered) by Ohm's law of the Universe.*
- *The mass of observable universe constantly growing with the mass rate of $4.037 \times 10^{35} \text{ kg / s}$.*

Universe and Flipping theory?

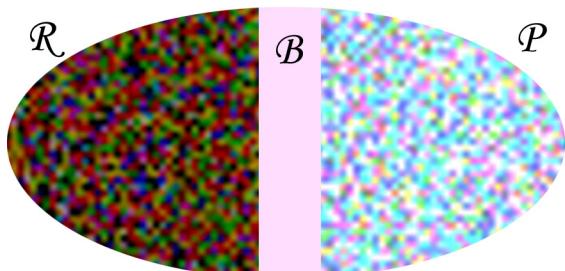


Figure 1 Universe by Krunomir Dvorski.
R is space of reality, P is space of property
and B is barrier between spaces

Years of thinking about the physical laws, many theories, various speculations and intuition led me to definition of the Universe (Fig.1):

"Universe is indestructible trinity two fundamental spaces and barrier between them."

First fundamental space is our space of reality **R**, with everything that physically exists, what we see, what we hear, what we feel, and everything what we can measure. Second fundamental space is the space of property **P**, located on the other side of barrier **B**. Space of property

cannot touch, interact and detect Space of Reality, but can communicate by "flipping" in the certain way. Flipping is the transformation (skipping) from space of reality to space of property and vice versa. The barrier is a temporary energy storage that allows separation and transformation between two spaces. To skip from our space into the space of property a certain amount of energy must be spent (lost). This energy must be in the form of disappearance of matter, space and time.

As I said, space of reality is everything that physically exists from tiny particles to galaxies. It includes observable space, time and all forms of matter and energy. Space of reality is often identified with the Universe, which is not correct. Universe goes much further than our space. Universe is trinity two fundamental spaces and

barrier between them.

Whole reality is built from small chunks of reality that are connected and described by physical laws. Every chunk of reality has its own properties like volume, mass, temperature, hardness etc. Basic properties such as time and space are inseparable part of reality. They are sealed (captured) as seen in Fig.2. The interior of chunks is filled with properties. Around the chunk is the real world. Any attempt to isolate properties (like space or time) from the real chunk results in the change or disappearance of reality. As I said mechanism of this transformation is flipping.

Space of property is located on the other side of barrier and built from small chunks of property (Figure 3). In that space all physical processes were stopped. The reality is sealed and frozen, and cannot touch, interact and detect properties. Foolish and unknown laws control this space. The explanation can be found through “proper” and “illogical” interpretation. Almost anything is possible as much as we want. The links between theory and experiments are eliminated.

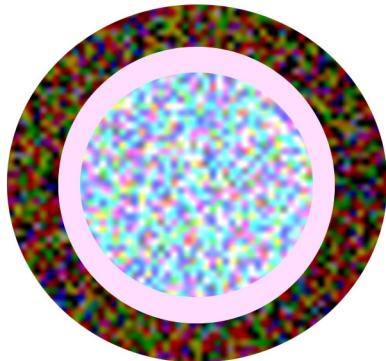


Figure 2 Small chunk of reality with sealed properties

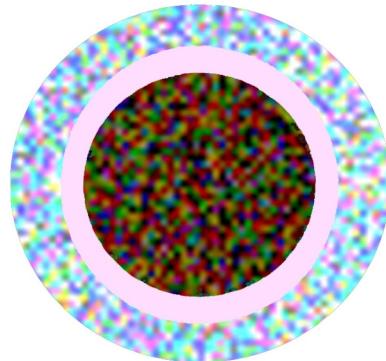


Figure 3 Small chunk of property with sealed reality

The space of property appears as an unusual blend of the real world without mass, space and time. From side of reality there are several basic properties that fill space of property. I will point some of them:

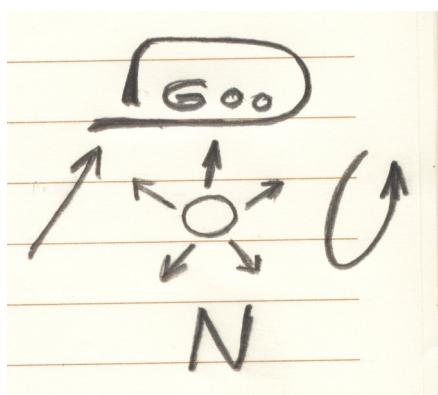


Figure 4 Goo, zero and more stuff in the space of property

1. Zero or Goo
2. Models like time vector, volume vector, spin vector, ...
3. Natural numbers N (1, 2, 3...)

Goo is something zero is something or nothing. They are the reference point from where reality starts by applying “Models” and “Natural numbers”. Goo or Zero cannot be found among the basic properties such as mass, charge, etc. This is something that is not subject of the laws of relativity. Goo or Zero is not a mere symmetry of reality like a particle and antiparticle. Goo or Zero is a strange combination of unexplored properties of the real world. In fact, Goo or Zero are chunks of property. After extensive research I found that there is something that can be a candidate. The topics will be discussed later.

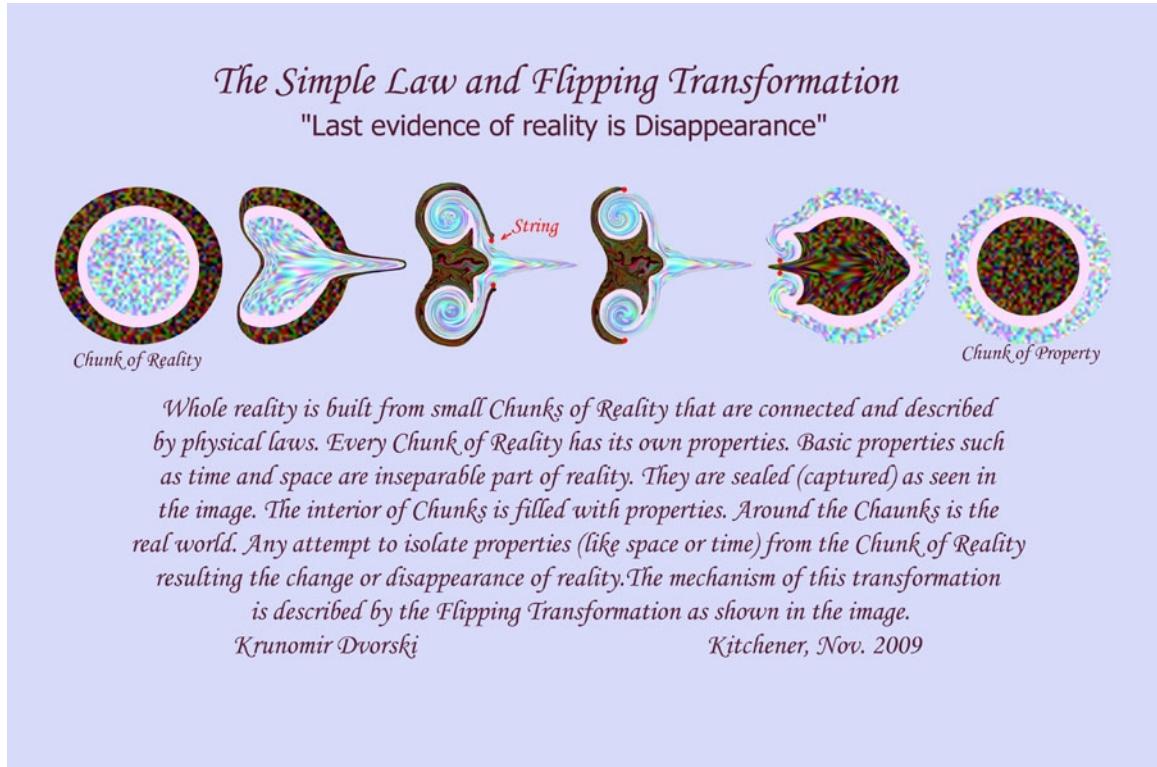


Figure 5 *Eureka moment for Flipping theory*

Models like time vector, volume vector and spin vector as seen in Fig.4 are not part of Zero or Goo. They are not time, volume and spin. They are sort of mathematical power that can be applied to Goo or Zero. Interaction between models are impossible. Any enforcement of such “interaction” results the transformation (flipping) to our real world.

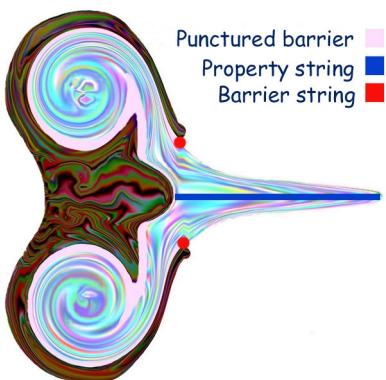


Figure 6 Strings are part of the flipping transformation

Natural numbers speak on quantity, such as the number of chunks.

Barrier is a temporary storage that allows separation and transformation between two spaces. Barrier is a place where space of reality is trying to leave their real world and go to the other side where there are only principles of the properties. The process of transformation from space of reality to space of property and vice versa, I called Flipping transformation. The visual concept was shown at the historic Fig.5. This is one of the most astounding consequences of playing with Universe.

Flipping from space of reality to space of property can be controlled from real world only. To perform it important is energy. With energy we have to produce enormous pressure. Pressure aspires to create singularities. It will not happen. At the critical moment the barrier will be punctured and some of the chunks of reality will escape (flip) in the

space of property. Lost chunks have become untouchable, they are out of control. It is the last evidence of reality.

Flipping transformation is accompanied by energetic strings. Figure 6 shows two types of strings - barrier string (red) and property string (blue). There is another type of strings (reality string) that occurs when a transformation going from space of property to space of reality.

Barrier string is closed string with closed loop. It is elastic edge of punctured barrier. In fact, the barrier string is some kind of accumulated potential energy in the edge of punctured barrier. Unlike barrier string, the reality and property strings are open strings. They represent a kind of kinetic energy of the coming jet.



Figure 7 Artistic view of strings

Enormous pressure for Flipping transformation can be found in the black holes, or can be produced by accelerating particles to the speed of light or by their collision. Under normal circumstances, the flipping transformation is happening rarely and randomly, anywhere and anytime. Flipping transformation from space of property continuously produce matter and enable expansion of the observable Universe. This will be discussed later.

Let's go back to the strings. During the Flipping transformation to the space of property, certain chunks flip out and some beat back to reality. That was followed by "sparking" of strings. Flipped out chunks reduce the pressure and send back information about it. This information needs to be some kind of radiation, caused by disappearance of chunks and barrier string. Beat back chunks maintain pressure. Flipped in chunks from space of property, increase the pressure and send information about their origin. This information is a kind of radiation, as well. I have a strong feeling that the background radiation comes from flipping transformation. Mention a phenomenon should be analyzed deeper and experimentally confirmed.

Ohm's law and mass of the Universe

Using dimensional analysis, it is possible to combine fundamental physical constants to produce basic units. Depending on the choice natural units may have physical meaning. For example, Planck units, presented below, use to derive constants relevant to Flipping theory.

The Planck length is defined from the speed of light in a vacuum, Planck's constant, and the gravitational constant:

$$\ell_P = \sqrt{\frac{\hbar G}{c^3}} \approx 1.616252(81) \times 10^{-35} \text{ meters}$$

The Planck time is the time required for light to travel, in a vacuum, a distance of Planck length:

$$t_P = \sqrt{\frac{\hbar G}{c^5}} \approx 5.39124(27) \times 10^{-44} \text{ s}$$

The Planck mass is defined as:

$$m_P = \sqrt{\frac{\hbar c}{G}} \approx 2.17644(11) \times 10^{-8} \text{ kg, (or } 21.7644 \mu\text{g})$$

From these Planck units I simply performed the following constants.

The space-time constant:

$$\mathcal{R}_k = \ell_P t_P = \sqrt{\frac{\hbar G}{c^3}} \sqrt{\frac{\hbar G}{c^5}} = \frac{\hbar G}{c^4} \approx 8.71 \times 10^{-79} \text{ ms}$$

The mass-space constant:

$$\mathcal{V}_k = m_P \ell_P = \sqrt{\frac{\hbar c}{G}} \sqrt{\frac{\hbar G}{c^3}} = \frac{\hbar}{c} \approx 3.516 \times 10^{-43} \text{ kgm}$$

And the mass-time constant:

$$\mathcal{I}_k = \frac{m_P}{t_P} = \frac{\sqrt{\frac{\hbar c}{G}}}{\sqrt{\frac{\hbar G}{c^5}}} = \frac{c^3}{G} \approx 4.037 \times 10^{35} \text{ kg/s}$$

The first two constants \mathcal{R}_k and \mathcal{V}_k are candidates for chunks of property. The third constant \mathcal{I}_k is part of space of reality. Very soon you will agree with my opinion.

\mathcal{R}_k and \mathcal{V}_k are not relativistic. Lorentz factor as a function of velocity is not applicable to them. They are without any visible physical meaning. It is hard to imagine meaning of dimensions such as meter-second (ms) and kilogram-meter (kgm).

Third constant \mathcal{I}_k is derived by mutual dividing the first two constants. As well, Lorentz factor is not applicable. This constant is a very real and belongs to the space of reality. \mathcal{I}_k has the dimension of the mass flow (kg/s).

Choosing symbols \mathcal{R}_k , \mathcal{V}_k and \mathcal{I}_k is not coincidence. All three constants suggests the Ohm's law:

$$\mathcal{I}_k = \frac{\mathcal{V}_k}{\mathcal{R}_k}$$

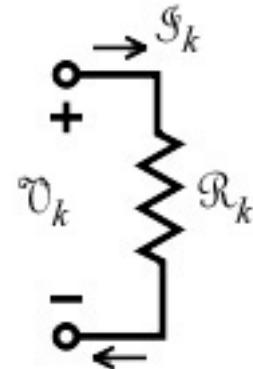


Figure 8 *Ohm's law of Universe*

Where are: \mathcal{R}_k the space-time resistance, \mathcal{V}_k the mass-space voltage and \mathcal{I}_k the mass-current (mass flow).

Is the mentioned mass flow meaningful? If there is meaning, what is it? The equation tells me that the mass of real space constantly growing with the mass rate of $4.037 \times 10^{35} \text{ kg / s}$. This is equivalent to two hundred thousand suns in seconds, or about 1.4 million atoms of hydrogen per second and volume the size of Earth. Of course, this matter is arranged over the whole Universe. The mass-space voltage \mathcal{V}_k and space-time resistance \mathcal{R}_k operate from space of property. The mass current \mathcal{I}_k is part of space of reality.

From mass current and age of the universe we can simply calculate the total mass of the Universe:

$$M_u = \mathcal{I}_k t_u = 4.037 \times 10^{35} \text{ kg / s} \times 13.7 \times 10^9 \text{ y} \approx 1.75 \times 10^{53} \text{ kg}$$

This value is approximately equal to the mass of the Universe calculated by other methods. Interestingly, the total mass of the Universe depends only on natural constants c and G and age of the universe:

$$M_u = c^3 t_u / G$$

If this statement is true, I get the most accurate mass of the Universe with uncertainty 1%.

Figure 9 Krunomir Dvorski - Original handwriting

Origin of the mass, space and time

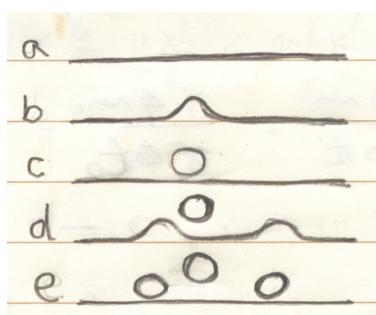


Figure 10 Prime spark

Questions about the origin of mass, space and time are still unresolved and unproved. There are many interesting theories. Neither of them does give complete and accurate response. I have experienced them in a special way. After my discovery of Flipping theory and Ohm's law of the Universe, things become different. I found that space, time and mass are a consequence of the uncertainty principle and relativity, driven (powered) by Ohm's law of the Universe.

Before creating our real world (space of reality), there is a simple space of property. The entire universe looked like a straight line as seen in Fig.10, filled with chunks of property. Mass, space and time did not exist. Some other worlds have caused slight rippling of line. Higher ripple sparked

(Prime Spark) a desire to create a singular point. It cannot happen, singularity can not exist. Before the occurrence of singular point the rippled line began liberated mass and space. Time as a result of the order of things appeared immediately after the mass and space. Mathematical interpretation of the described phenomenon can be shown... to be continued...