

Concepts Understanding Reality, Its Transformations and Its Different Shapes

Thomas Nordström, PhD

Abstract: *New concepts are introduced understanding reality, concepts that goes beyond Einstein's and the quantum's, as well as those of DNA and black holes.*

Keywords: Transformer, gravitation, energy

The three most important equations of the past four centuries, understanding reality, are these:

- 1) Newton's theory of gravitation: $F = Gm_1m_2/r^2$
- 2) Einstein's theory of energy: $E = mc^2$
- 3) Einstein's theory of gravitation, simplified: $G_{\mu\nu} = 8\pi T_{\mu\nu}$

These equations will now be replaced by the formula $X = aRb$.

By using five basic concepts, i.e., mass, flow, relation, transformer and shape, this new view of the world has been found understanding reality. These concepts are sufficiently and necessary understanding reality:

- 1) Mass
- 2) Flow
- 3) Relation
- 4) Transformer
- 5) Shape

Basically three dominant stipulated postulates are used:

- 1) Nothing exists in isolation; everything exists in relations.
- 2) Movement is a property of reality.
- 3) Every concept has to represent reality directly and concretely.

Based on postulate 1, the fundamental concepts and the fundamental equations will be the following:

The concept relation relates to reality by showing that there are relations between all parts in reality, where:

- 1) **a, b, c** ... are any system, subsystem, unit or part in any field of relation in Universe, e.g. suns, planets, moons, galaxies, atoms, molecules, cells, organs and species.
- 2) The relation, **R**, is a flow (wave) of packages, p_{1-n} , e.g. quarks, protons, neutrons, electrons, photons, proteins, fats, polysaccharides, between a, b, c ... in any field of reality.



Figure of the basic model of relations.

Based on the postulate - *nothing exists in isolation, everything exists in relations* –in combination with 1 and 2 above, the principle is

$$X = aRb$$

The principle of relations claims that between all systems and between all parts of any system, S, there is a continuous flow of packages p_{1-n} , i.e., in aRb , $R = p_{1-n}$, and thus the formula is

$$S = ap_{1-n}b$$

S is a complex of relations between all parts and elements in the system, i.e., the a, b, and c are complicated systems, which send and/or receive flows of packages, i.e., p_{1-n} :

$$R = \sum p_{1-n} = p_1 + p_2 + p_3 \dots p_n$$

The big challenge is now to identify all the p in all relations and to identify, certainly and concretely, the logic of

$$S_1 = (a_1R_1b_1) R_2 (a_2R_3b_2) \dots$$

Flows of packages are transformed by transformers, ending up in new shapes, e.g. new galaxies, new species and new surface of the Earth.

Any flow of packages consists of masses which stand in relation with systems. From system **a** the flow of masses moves to system **b**. This is valid for all masses in the Universe, e.g. galaxies, planets, suns, moons, atoms and elementary particles.

We need to find out how the emission and the absorption of these masses of the systems **a** and **b** operate and function. Then gates are crucial and important, and they can schematically be shown as in these two models:

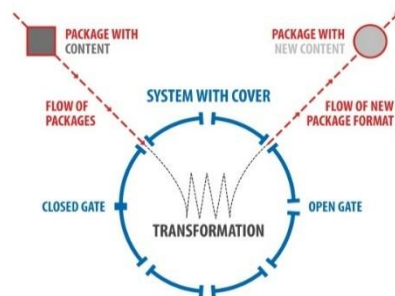


Figure showing emission and absorption of masses.

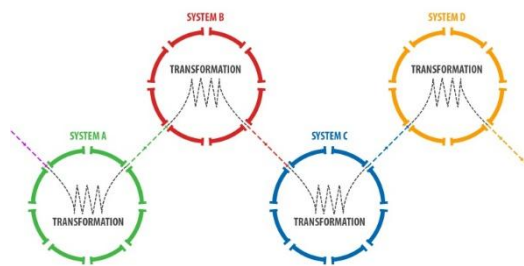
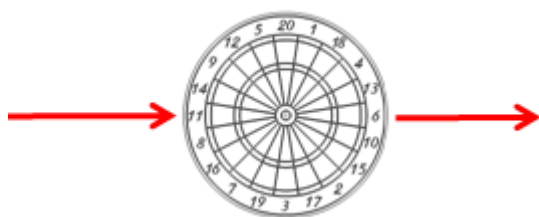


Figure showing emission and absorption of masses *between* systems.

The Transformer of the Universe

Based on the basic model below, we can now imagine how flows are being transformed in the entire Universe.



Then, let us apply these two pictures for the entire Universe, and with our imagination we can understand the complexity, as this model tells us:

The model shows how flows move between parts transporting packages, generating gravitation and energy, i.e., these flows are the foundation of reality.

Why matter occur in different shapes, such as the human body, a planet, a stone and the sun, has now to be focused. The Principle of Relations tells us how packages between systems function, but now we need to know why masses and matter occur in different shapes. We need to find out how and why different systems, such as humans, solar systems, planets, trees and stones are formed.

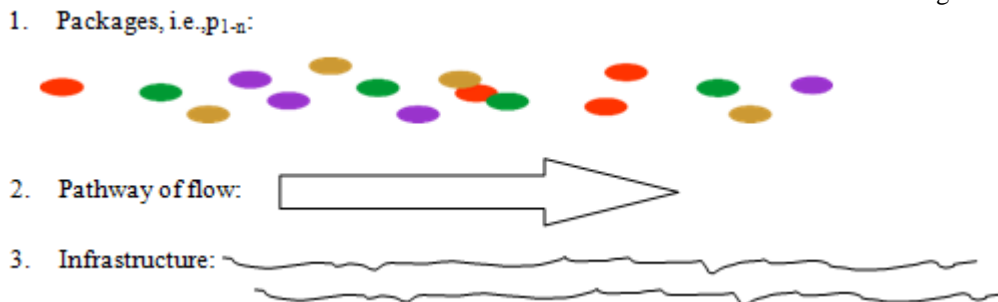
The questions to be asked now, is why a human has become a human, and why a tree has become a tree and why a stone has become a stone, i.e., why there are different shapes/systems in Nature.

Basically there is only one mechanism transforming masses to new shapes, i.e., *the transformer*.

Let us now study the following transformers of reality:

- 1) DNA
- 2) Black Holes
- 3) Design of inorganic shapes

A transformer consists of the following:

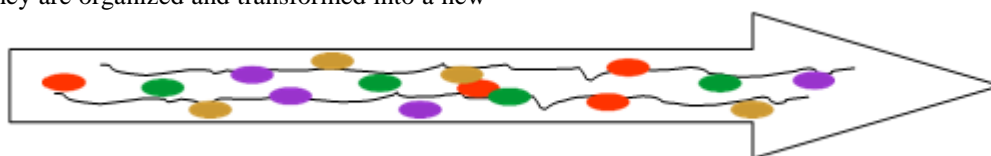


There is interaction between the pathway, its infrastructure and the packages, i.e., they are weaved and interconnected together.

shape; a new entity occurs, e.g. cells, organs, humans, galaxies, planets, trees, stones and water.

Packages enter the pathway in order, then by the infrastructure they are organized and transformed into a new

It can be summarized like this:



How DNA transforms masses

The Principle of Relations claims that DNA is an infrastructure, i.e., *the mechanism which directs and leads*

packages of molecules, to be called **transformer**, i.e., *DNA is a transformer transforming masses.*

The principle of relations claims that the structure of the chemical components A, T, G and C organize how *incoming masses* are built. At a certain size, the cell has to divide, since it cannot handle too much incoming masses. Then, *genetic information is the physical structure of the chemical components A, T, G and C*. Even if sequences of A, T, G and C can be considered as a four-letter alphabet, it is concrete, solid and coactive chemical components, which allow flows to move in specific order, guided by the structure. When cells have to divide due to lack of space, new cells occur guided by the structure.

This will solve the problem of storing information, since there exists no information, it is the infrastructure of the chemical components, which automatically organize incoming components.

When flows of components arrive into the structure of DNA, they will follow the pathway within DNA, each taking its position when properties fit. Flows, consisting of chemical components, arrive and follow the infrastructure finding its place and position.

The model below is one example of the infrastructure of DNA:

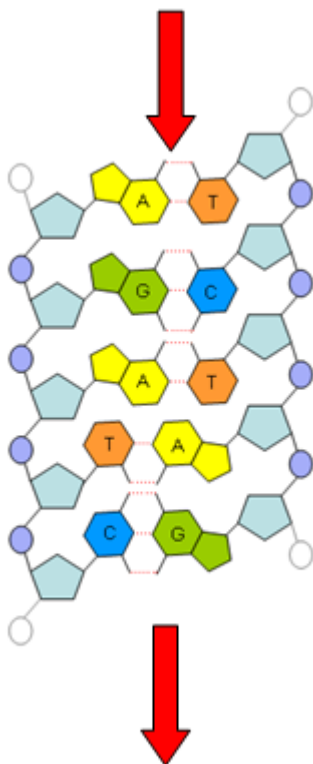


Figure: The infrastructure of DNA.

How Black Holes transform masses

Black Holes might be “pumps” for flows of packages in the Universe, and a Black Hole might be a Transformer. They transform masses of packages into the next system in the Universe, e.g. Galaxies and Suns.

We need to identify and map all flows in the Universe and show how Black Holes function as the Transformers for these.

However, the principle of transformation via the transformer is the same at all levels of the physical reality, e.g. between elementary particles as well as in the human body and in the entire Universe.

The equation of Black Holes is:

$$r = 2Gm/c^2$$

G is the gravitational constant, c is the speed of light, m is the mass of the black hole and r is the Schwarzschild radius.

The equation $E=mc^2$ contradicts Einstein’s own criterion for a complete theory that “*every element of the physical reality must have a counterpart in the physical theory*”, since it raises the question as to which element the concept c^2 has in the physical reality. The argument could be made, that the equation then is not valid.

Since the equation $E=mc^2$ has impacts on the general theory of relativity, then this theory would not be built on solid ground. When c^2 is taken off, the Black Hole equation falls apart. What’s left are the constants m and G , but they don’t make sense any longer.

As for now, the equation for black holes is derived from Einstein’s equation for general relativity:

- 1) Einstein’s Field Equations, EFE, consist of ten equations constituting the general theory of relativity. However here I need to simplify the basic concepts in order to compare the concepts of the principle of relations.
- 2) The most used equation is this

$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} + \Lambda g_{\mu\nu} = \frac{8\pi G}{c^4}T_{\mu\nu}$$

Where the left side is Einstein’s tensor and the right side is the energy-momentum tensor.

- 3) Working in geometrized units the equation is $G_{\mu\nu} = 8\pi T_{\mu\nu}$, where $G = c = 1$.
- 4) To understand and elaborate the fundament of EFE, I will use the even more simplified equation $G_{\mu\nu} = T_{\mu\nu}$.
- 5) The curvature of space-time cannot be equal to matter/energy. It is not the amount or size of masses that creates the behaviour of the Universe, called the space-time curvature. An argument could be made that it is not as previously described but rather a consequence of aRb .
- 6) The equation must be $G_{\mu\nu}T_{\mu\nu}$, which will now be seen as a description of the universe.
- 7) STCM means Space-Time-Curvature of Masses, i.e., $STCM = G_{\mu\nu}T_{\mu\nu}$.

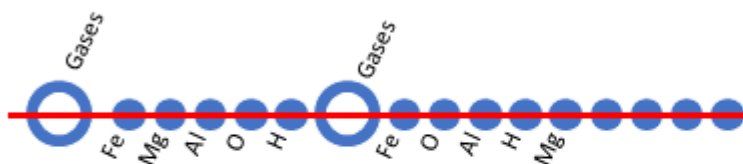
The simplified formula $G_{\mu\nu}T_{\mu\nu}$ can be transformed to $X = aRb$:

- 1) $G_{\mu\nu} \neq T_{\mu\nu}$, i.e., mass and form are one in co-existing; it is $G_{\mu\nu}T_{\mu\nu}$.
- 2) aRb results in gravitation by flows of packages, i.e., p_{1-n} , between bodies a and b in universe.
- 3) Form is the system where mass flows. Hence, the concept “system” replaces the concept “form” or any of its synonyms, e.g. architecture, design, space and shape.

- 4) What is left is RS, i.e., Relation and System, which is aRb.
- 5) From the equation $G_{\mu\nu} = T_{\mu\nu}$ there are two valid concepts, i.e., mass, m, and form, f.
- 6) Then $G_{\mu\nu}T_{\mu\nu}$ is equal to mf, where m can stand for $m_1, m_2, m_3 \dots = p_{1-n}$ and where f can stand for form, which is the system, i.e., $a_1, b_1, c_1 \dots$
- 7) Now we can translate $G_{\mu\nu}T_{\mu\nu}$ into aRb, i.e., $a_1p_{1-n}b_1$.

Then, by using the equation $X = aRb$, we can transform the most important equations of force, relativity and quantum into the equation as below, which unites force, relativity, quantum and energy with Black Holes, dark matter and dark energy:

$$X = a(\Psi(x,t) = p_{1-n})b$$

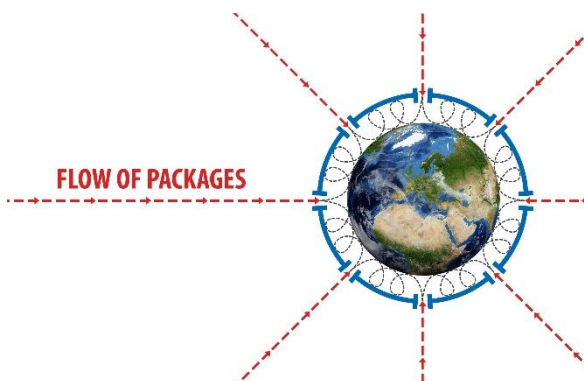


Black Holes are Transformers between galaxies using packages of the so-called dark matter and dark energy. The conclusion is that Black Holes do not exist. They are only imaginary, based on wrong and not valid postulates and theories of physics.

How transformers transform inorganic entities - the example of the Earth

The Earth changes, when R with its packages arrives via the “doors”, i.e., the gates, of the cover. Crust, mantle, outer core and inner core are continuously changing the Earth by R.

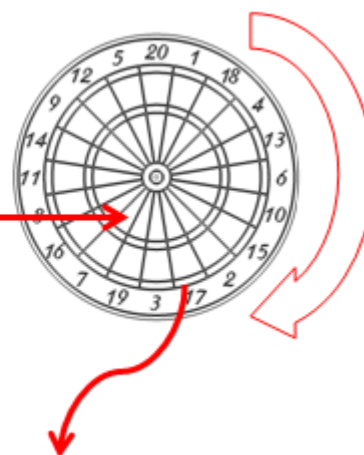
Below is a picture, which illustrates the phenomenon applying the principle to the Earth:



where **X** stands for force, gravitation and energy, **a** and **b** are systems and **p_{1-n}** is the flow of packages, i.e., $X = ap_{1-n}b$.

Simulations made by NASA’s Ames Research Center in California’s Silicon Valley, using supercomputers, show how flows of gases between galaxies, i.e., the ebb and flow of gases, create new stars. The results of the simulations also show that space is not empty, which we know from aRb, and which we now know also with this proof. These results are supported by the Lyman alpha forest, looking like the so-called intergalactic medium.

Let us first take the position that the main content of gas (X) in the Universe is hydrogen (H), then in combination with the elements of iron (Fe), aluminium (Al), magnesium (Mg) and oxygen (O), we can illustrate the Transformer, i.e., Black Holes:



Galaxies, The Sun, the Earth and Planets

Then the following chain of events occurred; flow of packages affected Pangea, then the Earth of today arise and now flows of packages affect the Earth so that over the next 255 million years the Earth will change again.

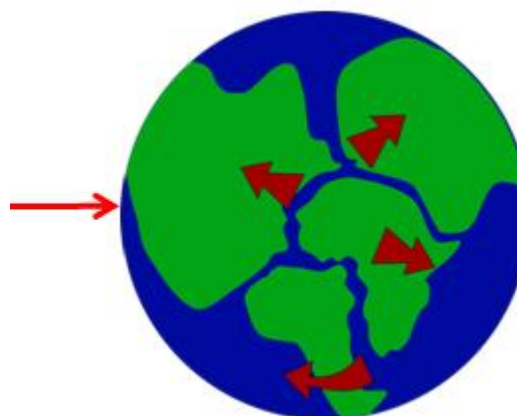


Figure of the geological world 255 million years ago, Pangea:



Figure of the geological world of today:

If b is the world of today and a is the world 255 million years ago, Pangea, then we have to find R, i.e. the packages that changed the world.

The continental plates move approximately six centimetres per year, as we know today. Then during the next 255 million years the plates will have changed position by 15.300 kilometres, since the plates move 1mm/week, i.e. 6 cm/year and approximately 0,5 cm/month.

| The earths geological changes over time | | |
|--|---------------|-------------------|
| The continetal plates change in kilometres | | |
| Yearly | Million years | 255 million years |
| 0,00006 | 60 | 15 300 |

We can now also make a probable picture, the figure below, of the geological world of tomorrow, Pangea Ultimo, 255 million years in the future:



Figure of the Earth in the future: