

The Intelligence of Nature Creates Species

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Abstract: *The Principle of Relations has a new answer how species are created. Then we have the answer which both the theory of Darwin's thesis THE ORIGIN OF SPECIES and the Bible's creationism cannot explain. It is the next step and level for understanding how Nature creates new species and how species are changed step by step. The thesis uses the concept transformers and how they create new shapes of species.*

Keywords: Evolution, creationism, DNA, transformers transform masses to new and changed species

Since 1859, when Charles Darwin published *The Origin of Species*, there is an ongoing debate between evolutionists and creationists. Each representative claims the full right to understand and accuses the other idea to be false not understanding. The only possibility to overcome this conflict of trench is to find those most basic fundamental concepts deeper than any existing theory and religion of today possesses.

We cannot rely on, the theory of evolution, the theory of relativity, nor the theory of quantum, not the concepts of God, Shiva, Allah or Jahve.

We must start at zero point and throw out all established concepts.

Three big spheres of established concepts and theories understanding Nature, i.e., the Universe and the entire reality, are:

The concept of energy is fundamental in natural science today. Once stipulated, it is mostly used without worrying. At this point, we need to seek the roots of the concept.

It all starts with Aristotle in the third century before Christ. Energy, in Greek *ἐνέργεια* (*Energieia*), was called *Vis viva*, living force or being at work.

Leibniz made a formal definition in 1695 and defined energy as the product of the mass of an object and velocity squared (!).

In 1802, Thomas Young used the concept energy instead of *Vis viva* and from that year the concept energy has been employed. In his published lectures he wrote:

“The product of the mass of a body into the square of its velocity may properly be termed its energy.” (!)

103 years later, in 1905, Albert Einstein had formulated the equation $E=mc^2$ (!) in the theory of special relativity.

From that point in time, science has not questioned the concept of energy. But, still, we do not know the proper significance of the concept or even if it is a useful concept for the interpretation of physical phenomena and appearances in Nature.

Once a concept has been established and is used without any reflection, we are trapped. The word and concept of energy has more than any other concepts let and led humanity into a dead - end when it comes to really understanding Nature.

Even if the concept in its applications really has lit up the world, we need to investigate the concept itself again.

Since Aristotle and through history, philosophers and natural scientists, such as Leibniz, Frege, Russell, Wittgenstein, Newton and Einstein, have used *the analogy that nature is a house*, built up by parts. Once formulated, it is easy to accept this basic logic. The belief that nature consists of some small pieces, elementary - particles and all synonymous, with rules of connection, enables the creation of any structure and conclusion. From axioms theorems can be deduced, atoms with bindings create molecules, elementary - particles create atoms with bosons, and planets are connected by attraction. Furthermore these elements and conclusions are either true or false. All models of science through history and up till now are based on this model, as are the Standard Model, the Periodic Table of Elements and others.

The language of nature is mathematics in contemporary science and has been so for many centuries. Now, seeking the next paradigm understanding reality, we have to leave *all* established paradigm, including mathematics.

Does mathematics exist independently from man? Is it possible that mathematics lives its own life? Is the language of mathematics a Bible? Is mathematics the new religion?

No, mathematics is created by man. It is an efficient calculation tool for technology and the economy and everything in our daily life. It is also a method for the interpretation of many phenomena in the Universe. It is an innovation made by man. Mathematics does not live independently from man. It is not a Bible and it is not a new God.

Mathematics can describe how concepts such as energy, gravitation and time behave. Even if these concepts are misunderstandings, they can be used, but they do not explain the behaviour of the Universe: it is still a matter of interpretations. Mathematics is not the language of the Universe.

From where does the number 1 come? Was it God who created number 1? Was it man who created number 1? Was it the Universe who created number 1?

The answer, as far as I understand, is that man created the number 1. Number 1 is an *a posteriori* concept.

The Nature does not have numbers. God, if he exists, did not create numbers, says the Bible. It is manmade. Man's brain

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has the capacity to create number 1, number 0 and all other numbers.

The Universe cannot adapt to this mathematics, but has its own logic. This logic can be found, if we listen carefully to the Universe.

However, there is reason - based logic that is beyond and more fundamental than mathematics.

The language of the Universe is not logic and mathematics. The language of logic is a mental construct, but it cannot be applied to the Universe. This distinction is very important. In the human brain there is a logic, which helps us to understand and deal with our reality. It is good enough and it really has created many useful and powerful technologies for a high quality of life.

But, the language of the Universe cannot easily be caught by humans.

In what way can experiments give us solid knowledge about the Universe and reality?

We cannot, in an experiment, study how the Universe behaves over time; we can only see a small piece of a part of a system. Of - course we will get some knowledge out of it, knowledge valuable for a better life, but we will never fully understand, since we use logic created by man.

The language of reality; whether dealing with the Universe, nature, elementary particles, quanta or the human body; cannot easily be caught by humans.

In all established paradigms, we have tools workable in ordinary life and these tools are based on ordinary life. However, established science understands them as laws of nature, which is wrong.

We cannot use the concepts of I - III. We need to invent a new logic.

This is the most important task for science, maybe starting within philosophy, to invent a new logic for understanding the world and its reality.

The green Y - axle in the figure below represents any principle dealing with all specific sciences based on explicit postulates. We need to start with the green Y - axle in finding new principles and new concepts and a new logic.

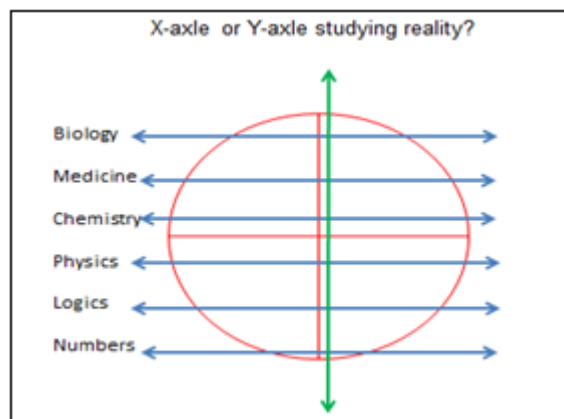


Figure 1: X - axle and Y - axle are two perspective understanding reality.

Let us take Einstein’s opinion as the starting point creating a new paradigm¹:

“In my opinion, nothing can be said concerning the manner in which the concepts are to be made and connected, and how we are to coordinate them to the experiences. In guiding us in the creation of such an order of sense experiences, *success in the result is alone the determining factor*. All that is necessary is *the statement* of a set of rules, since without such rules of a game in which, while the rules themselves are arbitrary, it is their rigidity alone which makes the game possible. However, the fixation will never be final. ” (My cursive)

Until now, 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) Planck - Einstein relation: $E = hv$
- 3) Einstein’s theory of energy: $E = mc^2$
- 4) Einstein’s theory of gravitation, simplified: $G_{\mu\nu} = 8\pi T_{\mu\nu}$

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

I listened to Albert Einstein: “I came to the conviction that only the discovery of a universal formal principle could lead us to assured results. How, then, could such a universal principle be found?”

I have trusted Albert Einstein’s cleverness that searching for a principle, based on simplicity, might be the best starting point and also that we can create our own concepts and their rules.

So, please be prepared for quite different concepts and the relations between them.

Reality, i.e., the Universe and nature, has the entire intelligence creating all that exist.

Thus, species do not adapt to nature. Darwin’s finches are adapted to the environment, based on the theory of evolution, is the most famous example, but it is wrong.

It is nature that makes any shapes and design to everything that exist.

The impact of nature dominates.

We need to change perspective from the concept *adapt*, to the concept *impact*, i.e., shaping.

Then contemporary theory of evolution will be affected and questioned.

Sometimes the intelligence of nature is called Shiva, God, Allah, Jahve, Nirvana (after death Parinirvana) or the Holy Spirit.

Then we can see the parallel between the concepts of nature, e. g., *shaping* and of religious interpretations, e. g., *creation*.

However, the big question is to understand, in scientific language, this intelligence.

Today, neither the theory of relativity or the theory of quantum or the theory of evolution or mathematics or any other theory can explain the intelligence of nature.

The gap has to be overcome.

This is the big task and challenge for humankind. Once we reach the answer, science and religions will change and humankind will take a big step forward.

This is my attempt understanding and it is called *The Principle of Relations*².

The Principle of Relations, P_R , claims to represent all aspects of reality, based on I - III:

Requirement for a complete theory:

Every concept has to represent the reality directly and concretely.

Postulates:

- Nothing exists in isolation, i.e. everything exists in relations.
- Movement is a property of reality.

Basic concepts

- Mass, i.e. m .
- Wave, i.e. $\Psi(x, t)$.
- Relation, i.e. p_{1-n} = flow of packages.

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

- a, b, c** ... are any system, subsystem, unit or part in any field of the Universe, e. g. suns, planets, moons, galaxies, atoms, molecules, cells, organs and species.
- 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 the Universe.



Figure 2: The basic model of relations

Based on the postulate – nothing exists in isolation, i.e. everything exists in relations –in combination with I and 2 above, the principle of relations is $X = aRb$, where X stands for gravitation, forces, interaction and energy.

The same organizational principal rules at all levels, i.e., aRb organizes all masses and all matter at all levels of the reality. 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

For each level and for each system there is different masses/matter and for each level and for each system adequate masses/matter occurs. So, the atom uses quarks and leptons when an atom occurs and the solar system uses the Sun, planets and moons when it occurs.

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 complex 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.

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

Once we have identified the Transformer and the flows in all parts of reality, we know how the Universe, the Earth, the Nature, the Society and the Human Body behave.

There are transformers all over reality. DNA is one transformer transforming masses to new cells; Black Holes are transformers transforming masses to new stars; Transformers transform masses to new inorganic shapes, e. g., changes of the Earth; Transformers transform species.

Shape is the result of the transformation by the transformer, e. g., new cells, new species, new galaxies, new suns and

The basic model of a transformer can be illustrated as figure 3 below:



There are transformers all over reality. DNA is one transformer transforming masses to new cells; Black Holes are transformers transforming masses to new galaxies; Transformers transform masses to new inorganic shapes, e. g., changes of the Earth.

When any flow of packages arrives at any system there are gates transforming the content to fit in to the system, and then the content will change appearance.

A Transformer is *the mechanism which directs and leads packages*, e. g., protons, electrons and nutrient molecules, within the cells in the human body.

Throughout reality the same principle applies to the mechanisms of a Transformer's functions, e. g., the Earth, the Sun, the Moon, the human body, galaxies, organs and cells. Please accept this simple illustration, where A, B, C and D are planets, suns and galaxies as well as atoms, molecules and conglomerates of molecules and cells:

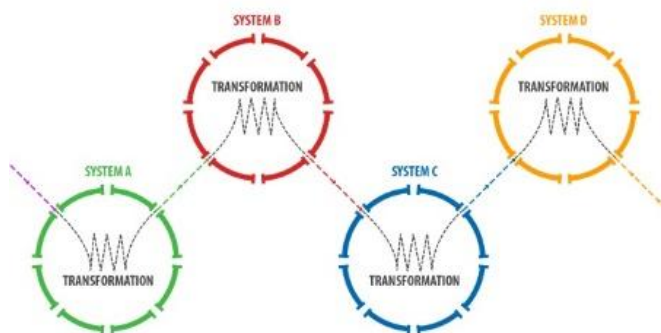


Figure 4: The model of systems transformations.

For each system there are gates, i.e. the transformation mechanism by the transformer, where the content of the packages is transformed for the next level of physical reality.

new planets. The transformers are, to make it very clear, once again, DNA, Black Holes and Transformer of the surface of the Earth.

The new concept is TRANSFORMER, i.e., there is interaction between the pathway, its infrastructure and the packages - they are woven and interconnected together. Packages enter the pathway in order, then by the infrastructure they are organized and transformed into a new shape; a new entity occurs, e. g., cells, organs, humans and species.

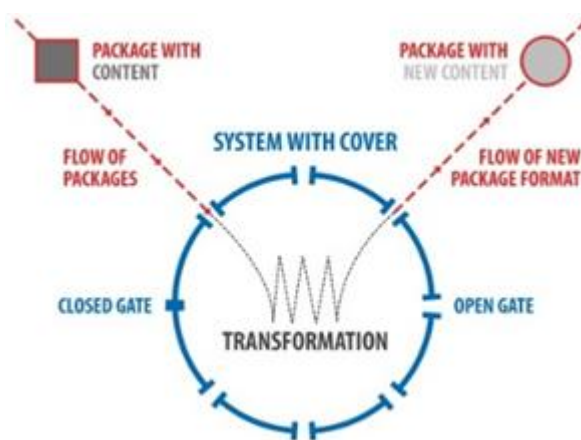


Figure 5: Emission and absorption of masses

The principle of relations applied to changes of species

Based on the postulates and the Principle $X = aRb$, we can now look into the changes of species.

Since the concept of evolution mostly is based on human values, e. g., development and progress, it is not valid. The mistake is analogous to what humans thought concerning the concept of geocentrism, later opposed by the heliocentric concept, i.e., we are not in the centre of Nature and the earth is not at the centre as geocentrism stated.

SP is species, R is the relation between SP and Nature, N. N has impact on SP by R. SP will change as a consequence of N:

With the language of the Principle of Relations we can summarize the change, not the evolution, of SP.

$$SP_{\infty} = (aRb)^{\infty}$$

Where **a** is N, which by R, i.e., p_{1-n} = flow of packages, will change **b**, to another species SP_2 or changes in attributes such as the size and shape of finches' pecker.

$$N \rightarrow SP$$

$$SP_2 = a_1R_{1-11} \rightarrow b_1$$

Now we must study how R affects the genes and how new mutations occur, *not as a random*, but as a logical effect of R, i.e., Nature.

S_{DNA} - the system of DNA.

aRb , where a is N, R is the content, i.e., $p_{1-n} =$ flow of packages, and b is S_{DNA}

The formula is then $N_{1-n}RS_{DNA}$

The table below must be explored and investigated in detail:

Table 7: The cause of the structure of DNA

| Species | Systems, parts and elements | | Relations | Systems, parts and elements | Broken relation | Disorder/disease | Repair of relation |
|---------|-----------------------------|----------------|---------------------------------|-----------------------------|-----------------|------------------|--------------------|
| | Flow | Structure of a | Structure o Content of Packages | b | Structure of b | | |
| | | | | DNA | | | |

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 to 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 organizes 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. Spiral 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:

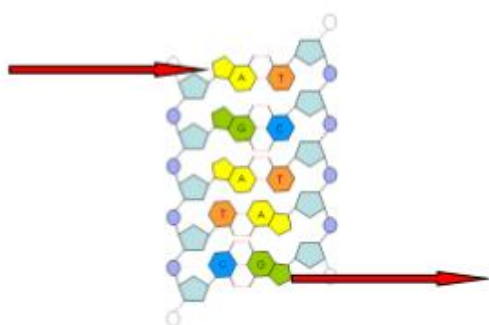


Figure 8: DNA transforms masses to newcells.

When the content of flow changes, it changes DNA, continuously and carefully, step by step, then the new structure of DNA changes the pecker of the finch.

To fully understand we must change our perspective, i.e., it is not species who adapt to Nature, it is Nature who changes and creates species such as humans and finches.

Please accept this simple illustration, where N has the symbol of a tree, to show this:

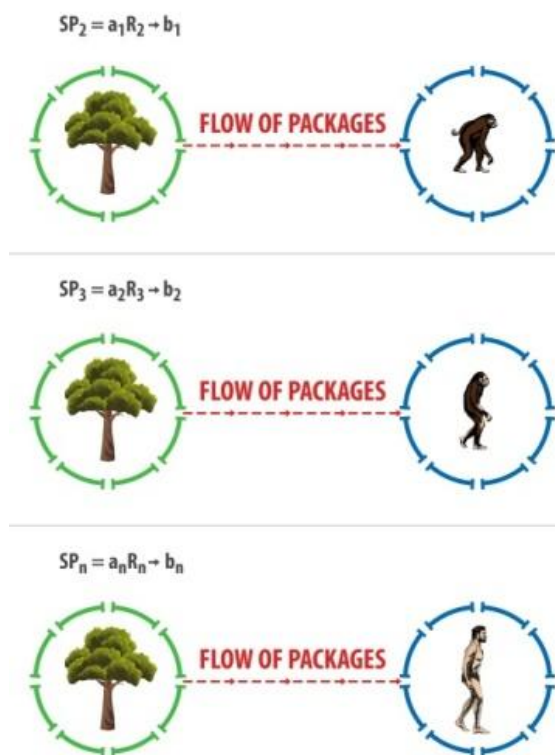


Figure 9: Nature changes species

As the intelligence of Nature creates species, there is also an inverse relation, i.e., when any specie dies, Nature will take care of them. This is of course comforting.

This reminds us of Genesis 3: 19: “For dust you are and to dust you shall return.”

Sometimes it is said this way: “From Earth You Came and to Earth You Will Return.”

However, we need to understand the mechanism which make it possible, both the creation and the inverse relation. Then, the Principle of Relations is one attempt.

So, when we try to find out how to unite science and religion this might be a starting point.

The Paradigm of Evolution – P_E , i.e. the contemporary science of biology

The Paradigm of Evolution, P_E , is based on these statements:

- 1) The principle is random, i.e., randomization is the base for the principle.
- 2) The mechanisms of evolution are random.
- 3) The random variation is generated by mutation.
- 4) Mutation occurs when DNA fails to copy accurately or when external influences, such as specific chemicals or radiation, create mutations.

Consequences for the concept randomness and P_E based on P_R

- 1) If randomness is the principle, then man has no free will, due to the fact that conscious decision making is based on randomness.
- 2) If man is a consequence of randomness, then all species are caused by randomness.
- 3) Then our solar system is caused by randomness, as well as all galaxies.
- 4) Then the entire universe is based on randomness.
- 5) Then randomness as principle is based on randomness.

Consequences of P_E based on P_R

- 1) Since the concept of evolution is based on human values, it is not valid.
- 2) Mutation occurs when $N_1 \rightarrow R_{DNA}$.
- 3) Randomness is not valid as an explanation.
- 4) Now we must study how R affects the genes and how new mutations occur, not as randomness, but as a logical effect of R, i.e., Nature.

We take two Z and each Z will be put into different systems, i.e., different systems of R, i.e., different $p_1 \rightarrow n =$ flow of packages, calling one Z_1 and the other Z_2 . Then we will carefully study how Z_1 and Z_2 will change over time.

Let us put the same seed, embryo or germ into two different systems of relations. According to P_R they will develop differently by the impact of packages from R.

The seed is dependent on water, temperature, oxygen, earth and light. Under normal conditions, grass germinates to just become grass. However if we change the conditions to extreme conditions, such as very cold, no light, no water and only some oxygen, let us see what will happen.

Now we wrap two sunflower seeds in two pieces of tinfoil and one in plastic film. We put one tinfoil and one plastic film in a dark and cold box. The other tinfoil we put outdoors in normal Swedish summer conditions.

They will be there for four weeks.

After four weeks we can see a difference in both size and colour.

A more careful investigation has to be done, with a microscope as well, to study the inner structure of the sunflowers.

Whatever kind of results will occur, there can be no relation between everything in Nature. We must find out which relations are possible. This means a huge amount of work to be done in order to identify all aRb when it comes to species.

Notes

- 1) Albert Einstein: *Out of My Later Years*. 1956, page 65.
- 2) The analysis was first described in the book *REALITY and the PARADIGM of RELATIONS*, by Thomas Nordström, published by Nova Science Publishers, New York, 2021.