

The Theoretical Foundation of Theories

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Different theories have different postulates as theoretical foundation. In this short paper the postulates for one specific theory – the Principle of Relations* - is explicitly expressed and focused, which then are the foundation that lies behind the analysis, logic and understanding of reality and different theories such as quantum, relativity, evolution, diseases, numbers, logic, society as well as concepts and phenomena as random, determination, DNA, black holes, ATP synthase and cancer:

1. “All” consists of the world today, the world of the past and the world of tomorrow.
 - 1.1 Everything that ever existed, exists or will exist is a part of “All”.
 - 1.2. All is dynamic – All is “alive”.
 - 1.3. All = **X**.
2. One world exists today.
 - 2.1. The world is a part of “All”.
 - 2.2. Anything that does not exist today is not part of this world.
 - 2.3. The world is dynamic – the world is “alive”.
3. Any world is differentiated into component parts, each one of which stands in relation to another.
 - 3.1. It all hangs together.
 - 3.2. Nothing exists in isolation.
 - 3.3. It all hangs together through a relation - **R**.
 - 3.3.1 Since it all hangs together, nothing is in isolation.
 - 3.3.2 The relation is superior to the parts, **a, b, c ...**
 - 3.4. If the relation is superior, there will be no cause and effect between the parts.
 - 3.5. The relation makes the parts' existence possible.
 - 3.5.1 Without relation the part will die and disappear.
 - 3.6. The concept of relation explains the concept of system.
 - 3.7. All systems are arranged in a logical hierarchy. If a superior system collapses, then all subordinate systems will collapse.
 - 3.8. All systems of relations, at a certain time, constitute the world.
 - 3.8.1 Everything happens only one time.
 - Nothing that happens will happen again.
 - The unique disappears and will never come again.
 - 3.8.2 Everything which is will become something new.
4. Everything that exists is physically concrete.
 - 4.1. Meaningful concepts are concretely interrelated.
 - 4.2. Abstract concepts must be able to be derived from concrete concepts.
 - 4.3. The sentence expresses the thought in a way which is perceptible for the senses.
 - 4.4. There are no meaningful concepts without concrete meanings.

4.5. The contents of thoughts are concrete.

4.6. That which is concrete either exists or does not at a certain point of time.

4.7. The combination of article 3 and articles 4.1 – 4.6 means that the world is alive.

5. Thoughts about concrete facts are meaningful propositions at a certain point of time.

These five postulates describe reality, and the concepts ‘the real’, ‘the physical’, and ‘the concrete’ are synonyms. Based on the postulates we can formulate the formula $X = aRb$. Let us call it *The Principle of Relations*.

Reality consists of systems, in which elements of different sizes and shapes are involved. The Principle of Relations deals with *the behavior* of these systems and their elements. These five postulates can be simplified to one fundamental postulate:

Nothing exists in isolation, i.e. everything exists in relations.

The concept of relation relates to reality by showing that there are relations in terms of flow of packages between all parts in the Universe, aRb , where:

- 1) $a, b, c \dots$ are any system, subsystem, unit or part in any field of the Universe, e.g. suns, planets, moons, galaxies, leptons, hadrons, mesons, baryons, nuclei, atoms, molecules, cells 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 $a, b, c \dots$ in any field of the Universe. Figure 3:



Based on the postulate - Nothing exists in isolation, i.e. everything exists in relations – in combination with 1 and 2 above, the principle is

$$X = aRb$$

Between all systems and between all parts of any system, **S**, there is a continuous flow of packages p_{1-n} , i.e. $R = p_{1-n}$. The formula will be this

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

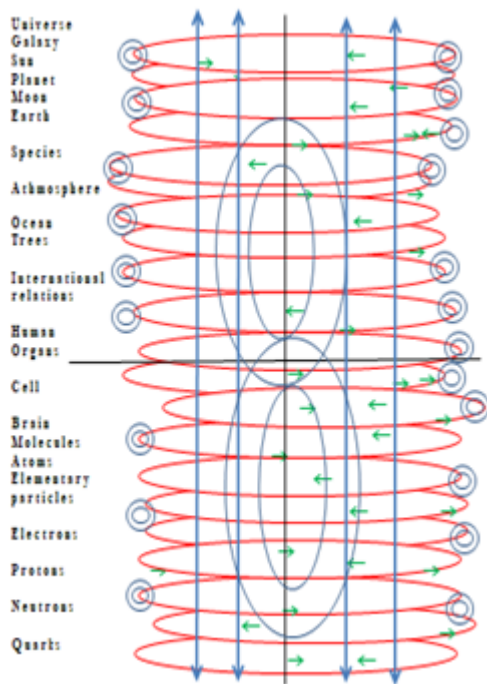
Manifestations of the flow of packages are gravitation, energy, interaction, dark energy, dark matter and force.

Based on $X = aRb$ and $S = ap_{1-n}b$ any system is and can be described as complex flows. We might call them wave functions, since a wave function is a flow of masses.

A wave consists of masses which stand in relation with systems. From system *a* the wave 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.

Reality shows up as relations between and inside all systems, and then we must create a logic that shows it.

It will help and ease our understanding with a picture, where the idea of relations shows up symbolically like this. There are continuous relations, i.e. continuous flows of packages p_{1-n} , throughout the Universe and Nature: they are all aRb , i.e. billions of billions of billions of billions ... aRb in endless Systems:



When applying the postulates and the Principle of Relations to reality and theories dealing with realities, the outcome is dramatic.

Please find the following articles within the International Journal of Science and Research (IJSR), search articles by Thomas Nordstrom, as examples:

The Concept Relation Unites Relativity and Quantum (ijsr.net)

Are ATP Synthase and Black Holes Scientific Illusions? (ijsr.net)

A World Government in Action: A New Pragmatic Ideology for Global Policy (ijsr.net)

Reality and the Principle of Relations (ijsr.net)

Does the Inertia of a Body Really Depend Upon its Energy-Content? (ijsr.net)

Does the Photoelectric Effect Really Explain the Emission of Electrons? (ijsr.net)

Does Brownian Motion Really Depend on Random Motion of Particles? (ijsr.net)

Does Gravitation Really Depend on the Curvature of Space-Time and its Energy-Momentum? (ijsr.net)

Different Logics Imply Different Views of the World (ijsr.net)

The Theoretical Foundation of Physical Reality (ijsr.net)

The Theoretical Foundation of Medicine (ijsr.net)

The Theoretical Foundation of Chemistry (ijsr.net)

The Theoretical Foundation of Logic (ijsr.net)

The Theoretical Foundation of Biology (ijsr.net)

The Theoretical Foundation of Society (ijsr.net)

The Paradigm of Relations (ijsr.net)

*The theory was first published by Cambridge Scholars Publishing: *The Principle of Relations*. 2018. The theory has been developed in the book *The Theoretical Foundation of Physical Reality*, authorHOUSE, 2020. *A World Government in Action: A New Pragmatic Ideology for Global Politics*. Cambridge Scholars Publishing, 2020, Thomas Nordström.