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ESSAY · TRANSLATION

The Order of the Connective Signs

German original: *Die Ordnung der Verknüpfungszeichen*

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THIS ESSAY IN OTHER LANGUAGES

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As the name already says, the connective signs (Verknüpfungszeichen) "connect" or "join" something - in our case the numbers - just as the chemical bonds (ionic bonds, covalent bonds, hydrogen bonds) ensure that the atoms come together with one another into more complex formations (molecules etc.) and thus build up an ordered basic framework of matter. Actually the atoms behave analogously to the number connections, since the numbers indeed underlie the atomic structure.

Something else must be noted. When we consider the connections - be it on the level of numbers or among the chemical compounds - we must distinguish between primary and secondary forms of bonding/ binding forces:

- the secondary binding forces are directed outwards, masculine, and dissolve structural units (centrifugal principle)

- the primary forms of bonding are directed inwards, feminine, and bring about the cohesion of the threefold structured structural units within themselves (centripetal principle)

What correspondence can we establish in the realm of numbers?

The atom, as the smallest threefold structured unit of matter, corresponds to the - *likewise threefold constructed* - One, which according to the 1:3 pattern

- simply as 1^2

- threefold in the form -1/0/+1

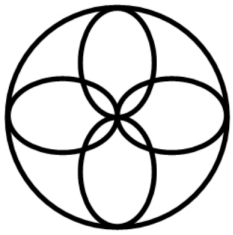
presents itself.

Of what kind, then, are the binding forces that connect the 3 aspects of the atom with one another? - Well, to be honest, we do not know exactly. And what about the forces that hold the 1^2 together in its interior?

For this, too, we have not yet developed a corresponding model. To remedy this deficiency, I therefore introduce, among the already known connective signs, the new rule "Sigma" and name its application in the realm of numbers with the expression: **"equilibrating" (equilibrieren).**

I chose the term "equilibrating" because it contains the word "equilibrium", which means "balance". The connection *equilibrating* achieves exactly that, for through the connection of (two) polar quantities (number-not-number, for example) a balance arises, which only comes about when the opposites, joined into a unity, balance each other out.

I christen the corresponding symbol **"Sigma"**, and it consists of two figure-eight loops standing at right angles to each other, which are enclosed by a circle and are the symbol of the cosmic octave, whose "sound" spreads in all four cardinal directions.



Connective sign Sigma

The primary forms of bonding in the atom itself are represented by the nuclear forces. On the level of numbers the atom corresponds to the 1^2. The numbers -1/0/+1 - are held together by a force *from outside* (which corresponds to the so-called "nuclear force"), which on the level of the connective signs is equivalent to the rule "equilibrating".

The 1^2 as a unity (corresponds to the atom) **is held together by the connection "equilibrating"**.

These forces, laid out in the 4th dimension, express themselves in the material, three-dimensional world through increasing **centripetal pressure acting from outside inwards** (the further the condensation of matter progresses, the greater the pressure) and hold our visible world together, *and this against the resistance from within!*

Note: every polarisation/separation leads to an imbalance, which strives for the restoration of the lost balance in absolute unmoved rest. In the process the inner need - to equalise the pressure gradient outwards in an explosive process - increases with growing distance from the origin of being. One's own existence is therefore determined primarily from outside, whereby the so-called "I" strives from its birth onwards to return into the womb of the spiritual mother (zero, silence, vacuum).

In this sense every atom, every person, everything living struggles to die, even if at first this may sound somewhat paradoxical. The cause of this lies in "gravity", which also comes to light as "nuclear force" and in its working always acts from outside inwards. A gravity that, proceeding from within, acts inwards is impossible, since this would necessarily lead to units isolated from one another, which however would violate that cosmic law which says: "Everything is connected with everything".

The dissolution of the three-dimensional numbers towards the unity 1^2 - which manifests itself threefold as 1/0/+1 - is accomplished centrifugally by secondary binding forces, whereby the primarily built-up "light pressures" (= chemical elements = matter) are led to the eternal balance of the zero aspect, the vacuum. The "ideas of God" in the form of the three-dimensional numbers 2,3,4 ... arise from the four-dimensional unity 1^2.

The "ideas of God" are influenced and set in relation to one another by forces which, through the original three connections

+ (plus) **!** (factorial) **-** (minus)

which embody the aspects *masculine* - *neutral/order* - *feminine* - are represented in the realm of numbers.

These three 3-dimensional connective signs correspond in the 4th dimension to the connection "equilibrating". We can therefore compare:

4th dim: The unity 1^2 (numbers -1/0/+1)	as resting aspect of structure appears in 3-D as the numbers 2 - 3 - 5
4th dim: "Sigma"	as resting aspect of motion appears in 3-D as the signs - / ! / +

The aspect of structure and the aspect of motion form in the 4th dimension an inseparable UNITY "Sigma 1^2", which only in the three-dimensional realm become visible as seemingly opposed aspects.

I now come to the organisation of the connective signs and begin with the primary ones:

- ! + ↔ subtracting - *factorial (ordering)* - adding

The middle, neutral connection "factorial" - which connects the number in question with its "history" and thereby "orders" it, e.g.: 3! = 1*2*3 - thus leads the 3 back to its origin (the 1^2).

The connection "factorial", as the neutral, middle aspect, is divided in two in accordance with the 1:2:1 structure: - (!/!) +

This makes clear that both the additive connection and its opposite, subtraction, must contain a form of order. In our material world there are no unordered, three-dimensional forms of existence, and we ourselves, too, in our physical bodies represent a high degree of order. The reason why we find it difficult to grasp the aspect of order or to formulate it exactly lies in its omnipresence.

Just as little as we can pin down the infinite are we able to isolate or delimit the aspect of order. But without this delimitation we are unable to detach this quality from its context and make it usable for ourselves like a tool. Just as we find it difficult to state exactly the middle between "above" and "below", or to separate the meadow from the forest, we find no possibility of pressing order into a fixed scheme. Everything we do, indeed, everything we are, IS order. Without order nothing IS.

THE ORDER OF THE CONNECTIONS

+	!	-	adding / ordering / subtracting
×	!	:	multiplying / ordering / dividing
∫x	lnx	ƒ´x	integrating/taking logarithms/differentiating
x^2	e^x	√x	raising to a power /taking logarithms/taking roots

Connections listed side by side are in each case reciprocal to each other, adding/subtracting or raising to a power/taking roots etc., whereby the middle aspect represents the neutral component.

The outwardly directed, "masculine" connective signs are represented by addition, multiplication, raising to a power and integrating. "Feminine", then, are subtraction, division, differentiating and taking roots.
Just as multiplication is an extended form of addition, raising to a power represents a special kind of multiplication, and integrating proves to be a special form of addition.

The essential correspondence of the neutral, middle connective rule factorial (!) with taking logarithms is obvious. For the base of the natural logarithm - Euler's number e - embodies the aspect of order in pure form:

$$e = \mathbf{1!/0!} + 1!/1! + 1!/2! + 1!/3! + 1!/4! + \ldots + = \Sigma\ 2.7182818$$

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