THE 1st MATHEMATICIAN:

MOVIES, THE ENVIRONMENT & THE DNA

The universe can be regarded as pure mathematics. Philosophers like Pythagoras or Plato as well as modern physicists like Roger Penrose or Max Tegmark, for instance, dwell and work on this platonic notion.

The physicist Hans-Peter Dürr points into the direction of understanding the heart of quantum mechanics, Heisenberg's uncertainty principle, as a basic code for vitality or life. From the uncertainty principle it is derived that there is no standstill, nothing is ever perfectly at rest.

The simplest, mathematical and cyclic code for describing vitality or activity is *PLUS,* as Plus is dual: *Plus* means both *MORE* and *ADDING UP* at the same time. Plus includes a timeless, certain uncertainty.
More (plus) is a decrease in unity, as unity has to be broken to show *more*. This is less unity, and less is a *Minus*.
But as *More (minus)* will always be *added up*, and as *Minus (more)* equals *Plus*–as does *Adding Up*–a cyclic, timeless and forward heading code can be described as all is *Plus*:

PLUS=MINUS(more)=PLUS(adding up)

This is the 1st MATHEMATICIAN: eternal *Plus, activity; pretty much like a super energetic, eternal rock star.*
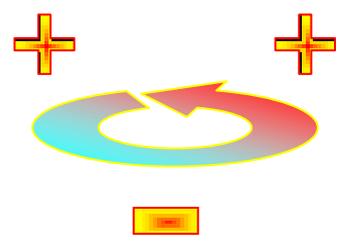
With regard to life, we pointed out in our book "*Plus – The Super Simple Math-Principle of Order and Perpetual Activity*" that life itself is just another implementation of PLUS, the Math-Principle. The cyclic notion involved in life was described and understood very early on by man, as he found cycles everywhere and captured it in different ways: the Yin-Yang symbol, the signs of zodiac, the picture of the timeless Uroboros, Goethe's understanding of life in the form of self-referencing feedback loops, or the modern understanding of cybernetic systems theory: it all encompasses recurrence or cycles.

Simplicity is rediscovered time and again in all aspects of reality in the form of the cyclic principle or the mathematical premise Plus.
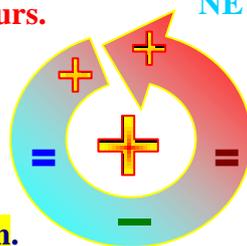
The quantum level is one such area where this simplicity can be found. As stated before, from the heart of quantum mechanics–Heisenberg's uncertainty principle–it is derived that nothing is ever perfectly at rest. Therefore, quantum fluctuations coming out of the void occur constantly. The released energy is borrowed and returned. As this happens on a constant basis, the Plus-pattern is repeated time and again.
The following chart describes how this can happen: The released energy out of the void shows itself as, for instance, two virtual particles that interact and, thereby, return all the energy back to the void.

THE QUANTUM LEVEL:
**(PLUS: intrinsically turbulent,
never perfectly at rest)**

5. CLARITY: The borrowed energy from the void/vacuum is repaid to the VOID (PLUS). Density & perpetual activity. NEW cycles can emerge.

1. THE VOID (PLUS): Out of the VOID, the energy reservoir: an energy fluctuation occurs.

2. EXPANSION (MORE, DIVISION, MINUS): Materialization of the energy in polar ways, for instance, as a virtual electron & its antimatter companion, the positron. MORE shows itself.

4. IN TOUCH WITH ALL: The VOID (PLUS, the starting point) is referred to, as the borrowed energy is relinquished. ALL is ADDED together.

3. RE-INTEGRATION: ADDING UP begins. The divided energy (more, minus) interacts with itself as electron and positron.

THE PLUS-MOVIE PLOT

The same pattern that describes the Plus-premise on the quantum level also constitutes the basis for energy rich movie plots.
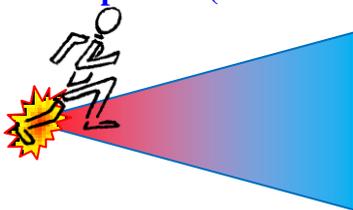
THE PLUS-MOVIE PLOT:
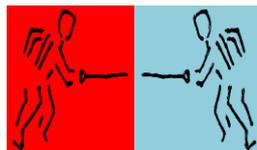### (PLUS: the protagonist, the main character, pursues a positive goal)

1. IMPULSE (PLUS):
The protagonist has a positive goal to reflect the Plus-nature of all.

2. EXPANSION (MORE, MINUS):
The protagonist takes his aspiration out into the world, he expands it and repeats it (the more-aspect of Plus).

3. RE-INTEGRATION: ADDING UP begins. Reactions from the outside are integrated by the protagonist.

4. IN TOUCH WITH ALL:
The protagonist finds the missing element with regard to achieving his goal and sees a bigger picture. All gets ADDED up.

5. CLARITY: The protagonist has achieved clarity with regard to his goal. New cycles can emerge.

more challenges   and/or a growing love interest

Movies that reflect this Plus-pattern–as they are based on a positive aspiration of the protagonist(s) –are, for instance:

"The Transporter", "The Bourne Ultimatum", "Quantum of Solace", "Clear and Present Danger", "Never Say Never Again", "Breach", "Sabrina", "Pretty Woman", "Annie Hall", "Ocean's 13", "Catch me if you can", "The King's Speech", "Black Knight", "The Firm", "96 Hours", "Charlie Wilson's War", "Music and Lyrics", "Star Trek: Insurrection", "Groundhog Day", "The Prince of Persia: The Sands of Time", "American Pie: The Wedding", "The Andromeda Strain", "Rocky" or the 2010 remake of "Karate Kid" with Jaden Smith and Jackie Chan. "Friends" is a TV show that reflects the pattern very well.

As **Plus**=**Minus**=**Plus** consists out of 5 segments with 3 dominant features, each movie has 3 major acts, or it can also be divided into 5 more detailed segments.

MOVIES:
STORYTELLING BASED ON THE CYCLIC PLUS-PRINCIPLE

AAAND ACTION!

The plot, then, is the first principle...
Aristotle

Cut! Thank you.
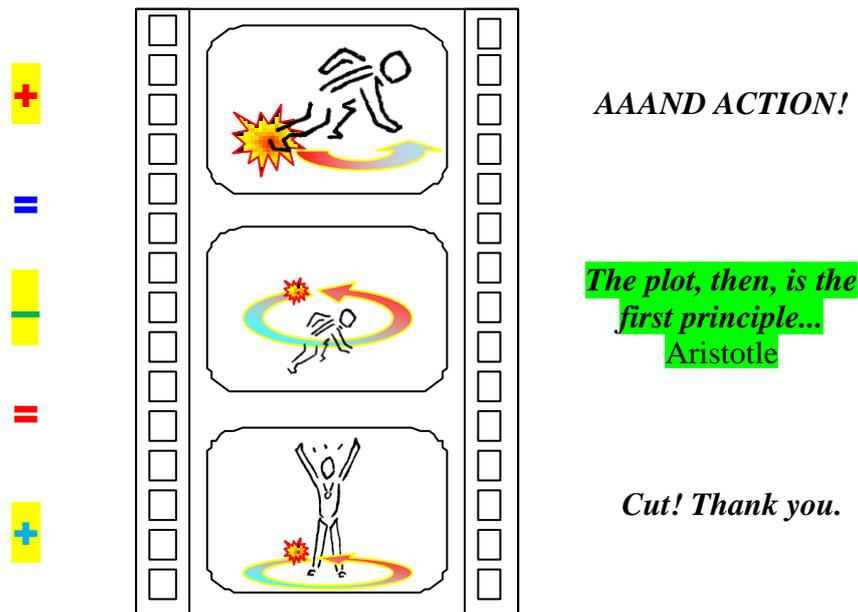
In his book "*The Hero With a 1000 Faces*" the modern mythologist, Joseph Campbell, for instance, points out that the cosmogonic cycle–the mythological version of world creation and destruction, respectively, the return of all into the void–is reflected in the course of the hero's actions.

Movie plots fall apart if the story changes from wanting something specific to wanting something else or not wanting something as the main goal.

The great insight is that chaos and complexity obey simple laws ...
John Gribbin, astrophysicist
(Deep Simplicity, 2004, p.xx)

Man himself knows the Plus-Principle as eternity and the flow of time from his perception: the right half of the brain stands for the timeless, holistic perception, while the left hemisphere is responsible for time-bound, sequential experiences.

All things flow and nothing stays.
Heraclitus

QUANTUM FIELD`S PLUS-ECOLOGY

As we have just seen discussing movie plots, Plus, the cyclic premise, is implemented on the quantum level. That's why it can also be called the **Quantum Field's Plus-Ecology**.
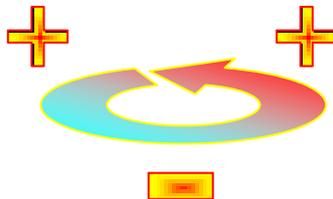
The core of organic farming and sustainable actions is that they are based on the cyclic, all-encompassing PLUS-premise that is underpinning everything.

One key feature of organic farming is that the soil (Plus) is alive, as natural ingredients are given back into the ground. The soil stays loose, is filled with micro organisms, can absorb water and nourish the plants organically. Simple, cyclic methods can be applied to achieve this. One such sustainable farming method is the push-pull-technique. By picking the right ensemble of plants, it is possible to achieve great returns and defeat pests.

A wonderful example of how nature is capable of regeneration based on simple principles is the reforestation of the Ethiopian dessert. The mere correct and simple

treatment of old trunks in the ground–cutting of old branches and taking good care of young shoots–caused vegetation to return. This created cycles that helped the local people to produce *more* than they ever thought was possible.

> *... for in nature nothing is complicated ...*
> Sepp Holzer,
> organic farmer
> (Der Agrar-Rebell, 2006, p.138)
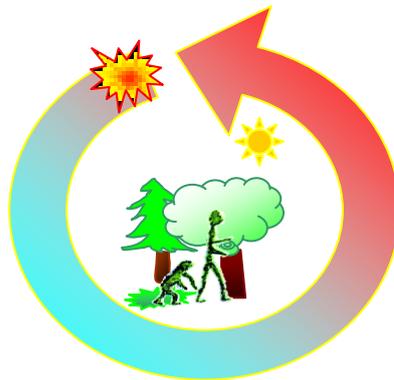
THE CIRCLE OF LIFE

THE PLUS-DNA-STRUCTURE

The structure of the DNA also implements the Math-Principle, Plus, in its unique way.

Already the chromosome depicts a structure that emulates the *times sign X*. The times sign stands for *more*, the first aspect of Plus.

Inside the chromosome there is the DNA with its famous double-helix formation. Using *Plus=Minus=Plus (+ = − = +)* as the premise, one can show how the double-helix inscribes the equation:
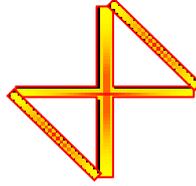
$$+ \; = \; - \; = \; +$$

1) First, we take the 1ˢᵗ Plus sign:

$$+ \; = \; - \; = \; +$$

2) Then we integrate the 1st equal sign with its 2 lines:

+ = – = +

3) Now the Minus sign is incorporated as a breaking-up operation (more):

+ = – = +

The connecting elements–the 2 lines of the equal sign–get divided, which turns the 2 equal sign lines into 4 segments (4 bases or the 4 letters, A, C, G, T).
**Also, the 2 lines of the Plus sign get loosened.**

4) Next in line is the 2nd equal sign which is smaller as the forward heading Plus-process integrates:

+ = – = +

5) The, **2nd** and final Plus sign follows as a completion of the cyclic equation back to itself: this generates roundness and concentration. It represents **adding up** and, therefore, closes the formation with another such Plus-structure (the 2nd Plus) **and** squeezes all together, so that it becomes more concentrated and thus round and bulky in a 3-dimensional sense like a spiral staircase: the DNA-structure.

+ = – = +
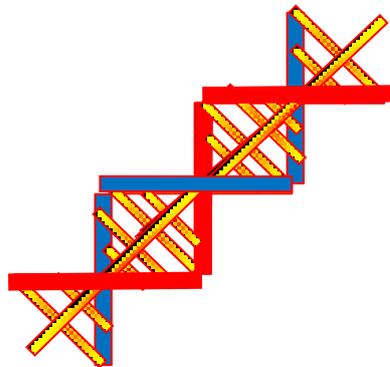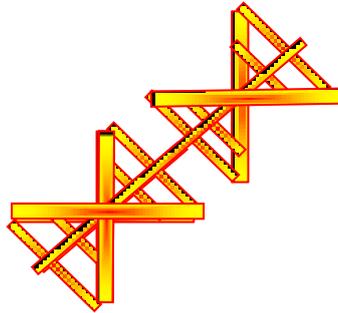
The equation <mark>*Plus=Minus=Plus*</mark> **has become an organic structure for storing information and passing it on. It acts like the void, the Plus-premise of all.**

3 letters on a single strand constitute a gene

6) The cyclic aspect (symmetry & more) produces repetition or recurrence of the pattern. Consequently one gets a long DNA double helix by using the basic structure many times.

7) As **Plus**=**Minus**=**Plus** has 3 dominant features, triplet-codes or codons (3 letters on a single DNA strand) constitute a gene, which–based on the cyclic premise– helps to pick the amino acid needed to produce a certain protein.

The PLUS-premise shows that it is self-replicating which is essential in the evolution of living organisms. As the basic premise, Plus, is cyclic and, therefore, integrating, too, Bruce Lipton–a cellular biologist–was able to show that all we experience, including our thoughts and feelings, is included in the process of activating genes and, therefore, in building our body.

We are the natural expression of a deeper order.
Stuart Kauffman,
theoretical biologist
(From: Deep Simplicity, 2004, p.186)

Nucleic acids are basically simple. They are at the root of very fundamental biological processes, growth and inheritance. The simplicity of nucleic acid molecular structure and of its relation to function expresses the underlying simplicity of the biological phenomena, clarifies their nature, and has given rise to the first extensive interpretation of living processes in terms of macromolecular structure. These matters have only become clear by an unprecedented combination of biological, chemical and physical studies, ranging from genetics to hydrogen-bond stereochemistry.
Maurice H. F. Wilkins,
physicist, molecular biologist
(Nobel Lecture, December 11, 1962)

... even creatures like us, the most complicated systems in the Universe, are built upon very simple rules.
John Gribbin,
astrophysicist
(Deep Simplicity, 2004, p.186)

I have a hunch that life started with the replication of quantum information. In quantum information processing, one of the things you want to do is to take a bit of information, a qubit as it's called, and make another that's the same. It doesn't have to be a process for replicating actual molecules.
Paul Davies,
physicist, natural philosopher, astrobiologist
(Life as we don't know it, http://plus.maths.org/content/life-we-dont-know-it)

We hope you enjoyed the short journey through the Plus-universe with the 1ˢᵗ Mathematician. A lot more, of course, could be said based on the eternal premise PLUS. It is also a lot of fun to explore all processes based on Plus, like the evolution of life, cooking, economics, management, etc., but that is a subject matter for another meeting with the 1ˢᵗ Mathematician.

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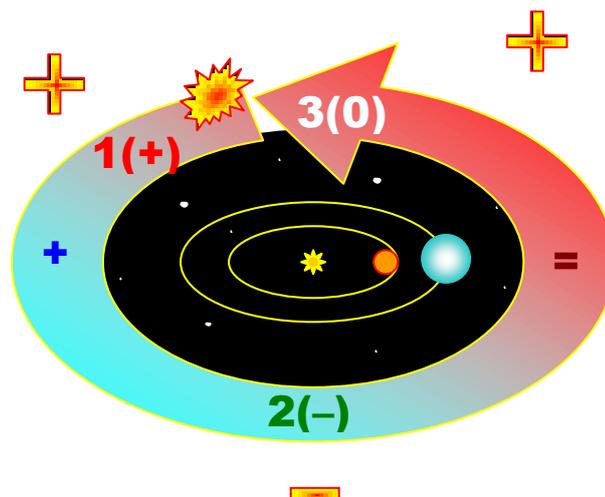
... truth always turns out to be simpler than you thought ...
Richard Feynman,
theoretical physicist
(The Character of Physical Law, 1992, p.171)

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