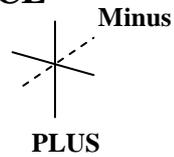


UNITY-CODE *PLUS* AS EXEMPLIFIED IN 3-DIMENSIONAL SPACE

by George Hohbach

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ABSTRACT

Three-dimensional space can be perceived as the combination of the *plus sign* (+) and the *minus sign* (-). As adding together two elements represents “PLUS”, the continuous mathematical unity of “Plus” and “Minus” constitutes an informational simplicity “PLUS” that can be used to understand all physical findings as interpretations of “PLUS”. The universe is then the continuous presentation of just one single piece of information. This is based on mathematics as a process with only one rule, one principle, in which *mathematics, information and energy* are the same: “PLUS”. By recognizing this mathematical simplicity as the primordial premise, the energy-code “Plus” becomes the timeless app (information) which serves as the basic code or principle for all processes in the universe and is easy to use for everyone.

1. Introduction

Mathematics and information or *energy and information* go together like a horse and carriage. Pythagoreans maintained that everything has a number for it to be recognizable. Already long before the time of Pythagoras and Plato, mathematics was used to capture the information as observed in nature. Understanding nature, life and the cosmos was always founded in mathematics, as it allows connecting and bringing order to (relate) all aspects—in time and space independent terms or equations¹. Mathematics provided a universal context that could be used to understand parts of nature as constituents of the universal, mathematical whole.

When Einstein formulated his theories of relativity, the interconnectedness of energy, matter, space and time, that he revealed, caused the notion of a deep, universal unity in terms of information and mathematical processes or computation being interwoven to enter modern physics. In his book “*Physics and Philosophy*” Heisenberg

¹ The word “cosmos” (derived from the Greek word *kosmos*) means “order”.

points out that fundamental particles ultimately have to be understood in mathematical form. Since Mathematicians like to be as general as possible to cover as many alternatives and aspects, and with chaos theory and systems theory in general revealing that the iteration of simple equations can give rise to complexity, it was established that simplicity serves as a primal premise.

Simplicity. Nowadays physicists are able to describe multiverses as emerging from nothing: a simplicity consisting of no space and no time. In this respect, Andrei Linde, who besides Alan Guth and Alexander Vilenkin, is one of the fathers of inflation theory, points out in *“Inflation, Quantum Cosmology and the Anthropic Principle”* that simplicity was what he discovered in the principles of chaotic inflation. Feynman in his book *“The Character of Physical Law”* mentions the importance of simplicity several times. Many other physicists like John Gribbin in his book *“Deep Simplicity”*, David Bohm in *“Wholeness and Implicate Order”* or experts from other fields like Bruce Lipton in his book *“Biology of Beliefs”* or Maurice Hugh Wilkins—who besides Crick and Watson helped to discover the DNA-structure—in his 1962 *Nobel lecture* highlight the simplicity in their findings.

Unity. Physicists from Werner Heisenberg to Roger Penrose to Max Tegmark in his article *“The Mathematical Universe”* point to the platonic idea that all is of mathematical essence. String theory itself tries to find a common mathematical premise to explain all.

Information. Other physicists like Lloyd, Zeilinger, Dürr, Smolin, Bekenstein, Wheeler and others highlight, that information is the protagonist in and of the universe.

Repetition. In his book *“Programming the Universe”* Seth Lloyd, continuing Zuse’s idea of a *“Calculating Space”*, sees the universe much like a quantum computer that evolved out of nothing based on simple formulas. Other scientists describe a Holographic Principle to explain all as being based on mathematical equations.

Extracting basic aspects from the scenario described above, one gets several timeless and space independent **keywords (information): simplicity, unity, cyclicity**.

The following description of “PLUS”, the Math-Principle, intends to show that “PLUS” serves the simple, timeless and space independent essence of information, as the information per se.

2. Plus, the Math-Principle, as exemplarily highlighted by 3-dimensional space

PLUS, the Math-Principle, means both “MORE” and “ADDING UP” at the same time. “MORE” stands for less unity, and this represents a “MINUS”. Yet, as “MORE/MINUS” always means “PLUS”, unity is always maintained. All is “PLUS”, all is one: so *nothing actually ever happens*, and “PLUS” therefore is the void; it is the energy-rich nothing (Plus) out of which “PLUS/energy” emerges to show “MORE” as, for instance, in a Big Bang or fluctuations of virtual particles.

Although all is “PLUS” (unity), by its own definition “PLUS” includes “MORE”, so that “MORE” has to show itself. This showing of “MORE”, however, always is an interpretation of “PLUS” and the inner equation of “PLUS”, which is $Plus = More / Minus = Plus^2$. That way unity (Plus) is always maintained.

In his book “*Einstein’s Spuk*“ Anton Zeilinger describes information as telling the elements of the universe how to arrange themselves relative to each other, which makes information the “fundamental ingredient of the universe”.

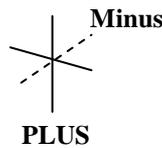
“PLUS” as the core information can be used to show that different descriptions of the term “universe” are simply different interpretations of the Math-Principle³.

² **Note: this is not a (recursive) algorithm.** It never leaves its unity, it does not cycle back in time. That is why one can get different interpretations of “PLUS” without them first having to be produced in time. “PLUS” is a principle.

³ This is information, from the Latin origin *informare*: actively bringing something into form.

2.1. Multiverse. As *nothing* is space- and timeless, it is “PLUS”, and Big Bangs can occur all the time creating a multiverse. A *MULTI*verse stands for “MORE”, and “MORE” is “PLUS”. The process of inflation, as, for instance, described by Guth, Linde and Vilenkin, points to a never ending or eternal process of the creation of universes. This point of view—which shows that the creation of universes is an eternal process—can in relative terms be assigned “more” to the first part of the equation *Plus=More/Minus=Plus*. “MORE” continuously emerges from nothing (Plus).

2.2. Bulk Universe. A universe with many dimensions, especially more than 3 space and 1 time dimension, is said to be a bulk universe with higher dimensions (more than 4). The 3 space dimensions represent the Math-Principle, PLUS: it depicts the unity of “PLUS” (+) and “MINUS” (-), which includes time as the cycle of *Plus=More/Minus=Plus*.

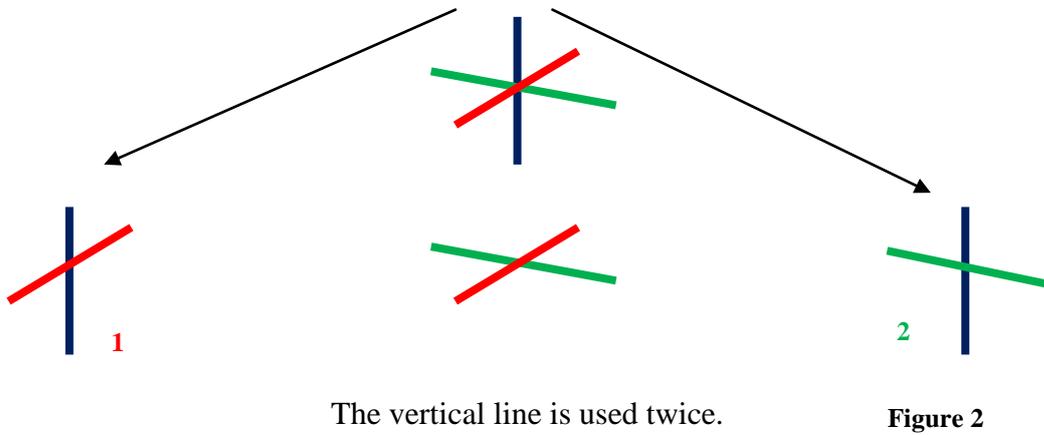


***PLUS* and *Minus* added together as one constituting 3-dimensional space. Everyone can see how the universe works.**

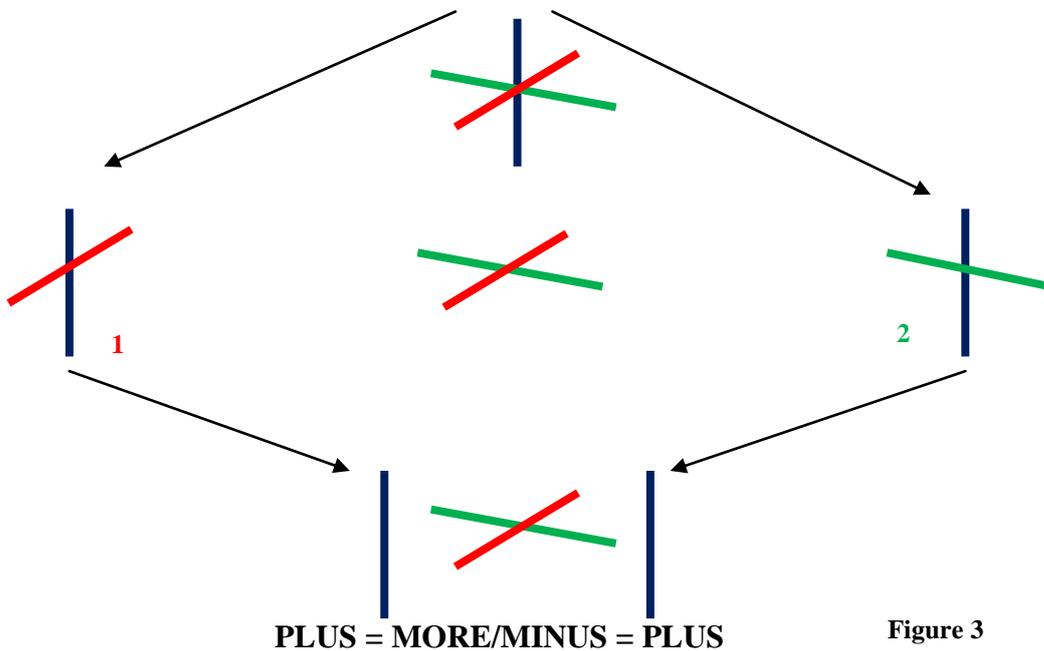
Figure 1

This depicts how *nothing* can be understood. As unity stands for equality, and since all can be regarded as “PLUS”, this unity can—as it indicates through the “MINUS” sign—hold “MORE” than the visible 3 spatial dimensions. It is just that equality, the unity, hides the extra (more) dimensions away, because equality covers up. Yet, as equality is “PLUS” (all is Plus), interactions can happen between all dimensions (the bulk). Since gravity expands (“MORE”) to add all up (“PLUS”), physicists see the graviton as a possible particle that can pass through all dimensions, because the graviton’s “Plus”-nature makes it at home everywhere—delivering different gravitational intensities (Randall 2006) depending on where it is, to reflect the “MORE”-aspect of “PLUS”.

The structure of 3-dimensional space shows that the vertical line is actually used twice since the horizontal “PLUS” sign touches the vertical line twice.



What this means is that the 3 lines constituting 3-dimensional space actually include a 4th line: this is how 3-dimensional space gets 4 dimensions although only 3 are visible. This amounts to 4-dimensional spacetime in the following manner:



The first vertical line represents unity or “PLUS”. This is followed by the two perpendicularly crossing horizontal lines, the “PLUS” sign which can also be read as the “TIMES SIGN”. The second vertical line again stands for unity, respectively

“PLUS”. So the 3-dimensional code of space includes the information of time as the cyclic process *Plus=More/Minus=Plus*: cycles, vibrating particles or watches constitute time.

...we can somewhat loosely think of a clock as a device that undergoes perfectly regular cycles of motion.

Brian Greene
(The Elegant Universe, 2003, p.37)

... the primary actor (...) in the physical history of the universe is information. (...) Energy makes physical systems do things. Information tells them what to do.

Seth Lloyd
(Programming the Universe, 2007, p.40)

There is a view... information is obviously independent of space and time.

Anton Zeilinger
(Was erzählt die Quantenphysik über unsere Existenz? Interview with the Wiener Zeitung, http://www.wienerzeitung.at/themen_channel/wissen/natur/506880_Das-Loch-im-Verstaendnis-der-Welt.html)

As “PLUS” can be understood as non-existent—all is “Plus” even “More”—, all is equal, and equality absorbs everything into non-existing unity; so, the mathematical information for space and time is part of *nothing*. Since “PLUS” is eternal, there will always be “MORE”: that is energy that cannot be created or destroyed.

In her book “*Warped Passages*” physicist Lisa Randall points out that in string theory there could exist a brane that actually comprises two branes. But as the two branes are in the same place, they act as one. Strings beginning and ending on branes and extending between two different branes can—should they exist—be understood, as Plus-unity (branes) with cyclically vibrating strings (More) that are attached to the branes (Plus). The graviton, a closed string, carrying the eternal loop-information

“*More adds up which will be More that adds up...*” would be the perfect messenger particle to be able to travel through all dimensions of the “PLUS”-bulk, the unity of all dimensions of a universe.

The fields of quantum physics are not only immaterial, but (...) a pure field of information—like a kind of quantum code. It has nothing to do with mass or energy. This field of information (...) exists throughout the entire universe. The cosmos is a whole, as the quantum code knows no borders. There is just the one.

Hans-Peter Dürr

(Am Anfang war der Quantengeist, interview with the PM. Magazine,
<http://www.pm-magazin.de/a/am-anfang-war-der-quantengeist>)

The chain of reasoning involving holography suggests to some, notably Lee Smolin of the Perimeter Institute for Theoretical Physics in Waterloo, that such a final theory must be concerned not with fields, not even with spacetime, but rather with information exchange among physical processes.

Jacob Bekenstein

(Information in the Holographic Universe: <http://ref-sciam.livejournal.com/1190.html>)

This understanding of the simple structure of “PLUS” allows us to draw some further conclusions with regard to observed physical phenomena.

One such area is the constancy of the speed of light. As stated before, “PLUS” tells as—just like Einstein pointed out—that space and time are interwoven. Since “PLUS” always becomes “MORE”, there is an arrow of time built into the cyclical equation of $Plus = \overrightarrow{More/Minus} = Plus$. Since “MORE” is located between the two “PLUSES”, there needs to be something like acceleration to be possible to reflect “MORE” in the process of going forward. However, this “MORE” must have an upper limit, a boundary in timelessness, as the equation points out that “*MORE equals PLUS*” and “PLUS” is timeless unity. Thus the speed of light is a forward movement through space, and nothing can be added (PLUS) or subtracted (MINUS) from this speed.

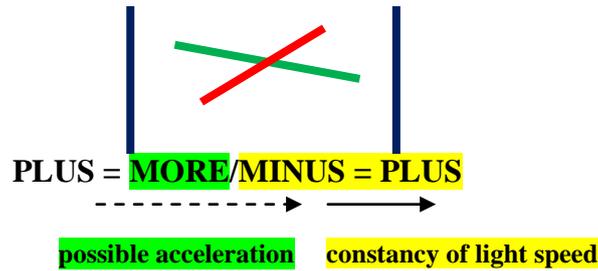


Figure 4

Since the equation can be read forward and backward, the first half “PLUS=MORE” can, too, claim to be “PLUS=MINUS” (the constancy of light speed), as shown below in Figure 5. This then gives us the speed of light twice, which is not surprising, as *c* (speed of light) stands for timelessness, and that represents unity. Unity can be read twice.

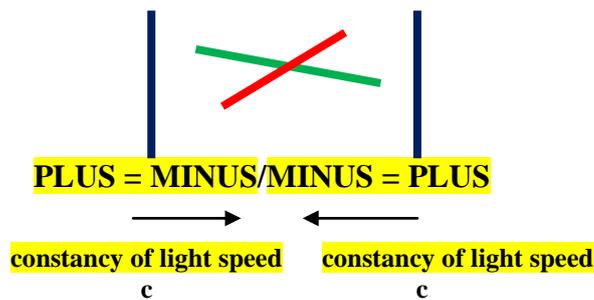


Figure 5

The two vertical lines then both represent *c*. In the middle there is the “PLUS” or “MORE” sign (Times sign). “MORE” is “ADDED UP” (Plus): matter.

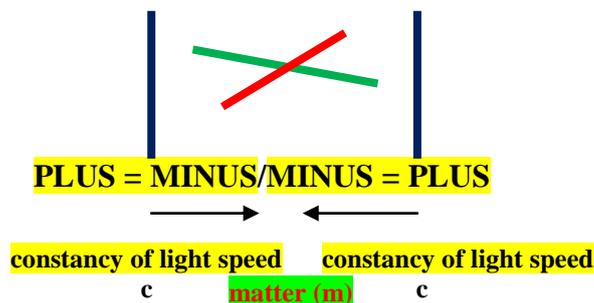


Figure 6

If one reads the “MORE” in the middle as the “TIMES SIGN” one gets:

$$mc^2$$

and that is Einstein’s equation: $E=mc^2$

The understanding of “PLUS” shows how all is interwoven: time, space, matter, energy, the speed of light, etc. It is all one piece of information in its presentation (MORE).

The “PLUS” premise works just as well for assigning data from quantum mechanics to $Plus=More/Minus=Plus$. It becomes clear how Feynman’s sum-over-paths approach, or the nature of the electromagnetic wave⁴, the Copenhagen interpretation of quantum mechanics, the wave-particle duality of light and matter or the warp drive concept, etc. are different interpretations (MORE) of unity (PLUS). The same is true for life. More details can, for instance, be found in the article “*UNITY-CODE PLUS*” on www.georgehohbach.com.

The discussions around the idea of the bulk universe can relatively be assigned “more” to the middle part of the equation $Plus=More/Minus=Plus$.

2.3. The cyclic universe. Based on “PLUS” it does not appear unnatural to consider a universe as cyclic. Roger Penrose describes his CCC model in his book “*Cycles of Times*”. Other scientists see different versions for a cyclic universe, like Steinhardt and Turok. Veneziano and Gasperini, string theorists themselves, too, have produced a formalism that shows how a new Big Bang can emerge in a cold, empty universe. This point of view can relatively be assigned “more” to the last part of $Plus=More/Minus=Plus$.

“Nothing” –in this case no space, no time, no anything!–is unstable.

Lawrence Krauss
(A Universe from Nothing, 2012, p.170)

⁴ An explanation of the electromagnetic wave can be found in the article “*Unity-Code Plus*” on www.george.hohbach.com

The basic idea is very simple. In the presence of a positive vacuum energy, it will remain true that most states tend to empty out to empty space, but “empty space” will (...) have a Gibbons-Hawking temperature (...). This temperature gives rise to thermal fluctuations (...) which can then continue forever as in the standard story of eternal inflation.

Sean Carroll and Jennifer Chen

(Spontaneous Inflation and the Origin of the Arrow of Time, p.20, arXiv:hep-th/0410270v1

... with the introduction of the chaotic inflation scenario (...) it was realized that the basic principles of inflation actually are very simple.

Andrei Linde

(Inflation, Quantum Cosmology and the Anthropic Principle, p.3, arXiv:hep-th/0211048v2 8 Nov 2002)

... truth always turns out to be simpler than you thought ...

Richard Feynman

(The Character of Physical Law, 1992, p.171)

3. Conclusion: There is always “PLUS” and “MORE”:

PLUS=MINUS=PLUS provides us with an accounting method: from the inside outward and back inward. This can be applied to counting dimensions—the exact meaning of dimension is not clear (it also contains the “More”-message) other than it helps locating a point (adding up)—in the structure of 3-dimensional space.

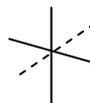


Figure 7

Inside (1): there is a point: 1. Expanding outward, there are three lines: 3. This is the unity representation (PLUS).

Outside (2): Yet, there is also a version of the very same structure that states that each line is used twice. We call that “*back and forth*”, “*up and down*”, “*left and right*”. This is “MORE”. So, besides counting the unity-version with 3 lines, one also has to take into account that there exists the version with two lines (MORE). Each line can be counted twice then: 6. The subtotal so far is: $1+3+6=10$.



Figure 8

Inside (3): Returning to the point of origin (PLUS), one gets one more dimension and a total of $10+1=11$. However, if you want to acknowledge that unity always consists of at least two parts (the minimum MORE) then you could get 12 dimensions, which Vafa comes up with in his F-theory (where “F” stands for father).

Anyhow, the “PLUS” structure of space tells us that there are **two ways** of reading it:

- One where all is smooth, flat and one: that is the version Einstein used to formulate his theory of general relativity, as this theory relies on smooth space. This is the “PLUS”-unity-version.
- The other reading is the one in which all lines are one but are actually twins. That is the “MORE”-version with an inherent amount of uncertainty or vibration. Quantum mechanics captures this probabilistic nature of being “MORE” at the same time⁵. (Note that “MORE” in *Plus=More/Minus=Plus* stands in the middle of the equation, at the centre, and at the same time it leads forward into the “outside”.)

⁵ Note that the signal „2“ is enough to mean “MORE“. So in the 2-slit-experiment, the fundamental particle can, as Feynman pointed out, take an infinite number of paths at the same time to add all up to result in a “More”-showing, the interference pattern. Or the electron can, if observed, pick the “Plus”-unity version as a particle. Both ways guarantee “Nothing ever happens”.

- Consequently, the rules of general relativity (Plus) and quantum mechanics (More) are enough—as physicist Lawrence Krauss points out in his book “*A Universe from Nothing*”—to explain how our universe or a multiverse can emerge from *nothing*.
- And it looks like that string theory could actually be the theory to combine both approaches, as it includes both versions through its summing up of the hidden dimensions as well.
- Nonetheless, due to “PLUS” there is always “MORE” to discover.

Again, all is “PLUS” as “MORE” is by definition “PLUS”. Consequently *nothing happens* (despite all that’s going on). So, as Michio Kaku points out in his website-article “*M-Theory: The Mother of all Super-Strings*” referring to Schwarz and Townsend, it all “may be independent of any dimensionality of spacetime”. This brings us back to the notion that all is information which is independent of spacetime, and a way to understand this is: “PLUS”.

Kaku also highlights that Einstein, in developing his theory of gravity, started out with a principle, namely the equivalence principle that states that gravity and acceleration are in their effects locally indistinguishable.

- The information contained in **acceleration** is: Energy (Plus) is used to show “MORE” (increasing speed, for instance). From $Plus=More/Minus=Plus$ we know that “MORE” always “ADDS UP”.
- The information contained in **gravity** is: Matter, or dense energy (Plus), shows “MORE” and “MORE” always “ADDS UP”.
- In essence, Einstein made full use of the timelessness and space independence of information: “PLUS” and its equation $Plus=More/Minus=Plus$.
- Consequently, with general relativity Einstein could show that **all observers** are on an equal footing. All observers are “MORE”, “MORE” equals “PLUS”. Every observer is “PLUS” and can use its equation to integrate. That’s where the constancy of the speed of light comes in, because it represents the $Plus=Minus(More)$ -aspect of the equation (in space), meaning that all gets added up. So, the different phenomena are all “PLUS”, show differ-

ences to represent “MORE”, but in essence, when looked at closely, they all just repeat “PLUS” only with a slightly different emphasis or in a slightly different implementation. Energy (Plus) can take on many forms (More), which also follows from Einstein’s equations.

- **Quantum mechanics** shows the same pattern. The light beam of an observation hits an electron. The electron absorbs some of the energy and flies off. The electron as a “PLUS” integrates the incoming “MORE” of energy, and this “ADDING-ALL-UP” results in a new “PLUS” that cannot stay that way, as “PLUS” needs to show “MORE”—as uncertainty to begin with. The “MORE” needs to be presented “MORE”, so the electron has to move forward: *Plus=More/Minus*. Fully entering the “MORE”-phase, the electron takes the nature of being “MORE” in a probabilistic fashion: it likely can be found at different locations at the same time. If one looks again, to see where the electron actually is, all gets “ADDED UP”. That’s what *Plus=More/Minus=Plus* or the Copenhagen interpretation of quantum physics says.
- In the article “*Information and Computation*” Lee Smolin discusses the very idea of information and computation that emerged with Einstein’s theories of relativity, as they showed that all is interconnected. As part of the holographic concept of the universe Lee Smolin mentions understanding the world in terms of systems that show how information—that would be “MORE”—evolves in time; networks that evolve in time. “*In time*” means the forward direction of *Plus=More/Minus=Plus*. As all is “PLUS” and “MORE” is an inherent part of “PLUS”, there is the information that also allows quantification within unity. Since “PLUS” also encompasses all mathematical operations included in 1. “MORE” (minus, division, multiplication) and 2. “ADDING UP” (Plus), one gets the aspect of computation. Geometry or dimensions (space) come from the equation *Plus=Minus=Plus* inherent to “PLUS”. Again: due to the “MORE” aspect, energy (Plus) can take many forms and present itself in many different interpretations of itself; Plus never loses its unity. The platonic idea—that also Max Tegmark envisions in his “*The Math-*

ematical Universe” article—is connected to Pythagoras’ thinking, and Werner Heisenberg in his book “*Physics and Philosophy*” takes the idea, that all is mathematical, as the core premise with which also elementary particles should ultimately be understood.

- **String theory** says that there are at least 10^{500} different worlds or universes: that is “MORE”. The term *landscape* used to encompass these many possibilities is a unit. Again, we come back to “PLUS” that encompasses “MORE”. From *Plus=More/Minus=Plus* we know that the equal signs say that there is timelessness. But equality also unites, it “ADDS UP”. So, out of eternity “MORE” will show⁶ ...
- The universe always stays true to itself, it never changes its core information “PLUS” or “NOTHING HAPPENS”.

Three “MORE” examples:

I. Emerging from emptiness:

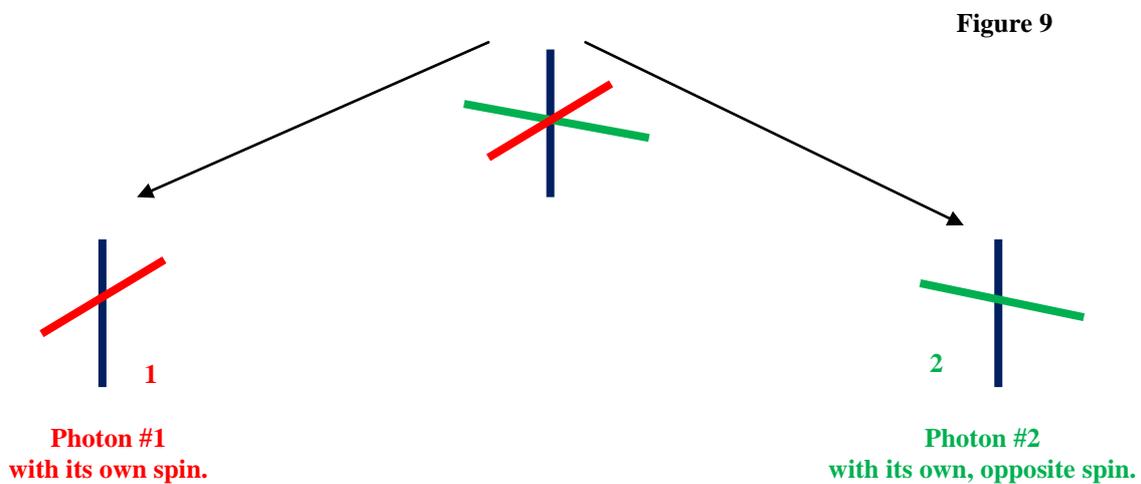
In the article “*Das fraktale Quantenuniversum*” Renate Loll and her colleagues Jan Ambjørn und Jerzy Jurkiewicz describe how a universe like ours can be generated by a computer model from a self-similar emptiness based on a “simple recipe” consisting of simple ingredients and processes, as they put it. The physicists point out that differences of geometrical shapes lose their significance on small levels. This is what “MORE” being “PLUS” and therefore never leaving unity means: non-existence. At the same time, “PLUS” demands a forward movement to show “MORE”. This is the arrow of time. Loll and her colleagues used this arrow of time movement as well as simple quantum rules (More) and gravity theory instructions (Plus) to have their

⁶ **Dark energy.** If one takes a circle as a representation of 100% and places a “Plus” sign in it, one gets 4 sections: the first “Plus” (of *Plus=More/Minus=Plus*) is one section. “More” has a minimum of two and takes up two sections. So, three sections, 75%, represent expansion. The second “Plus” occupies the fourth section. “Adding all up” equals 25%. The second “Plus” represents concentration towards the centre, which counts as a fifth dimension. $25\% \div 5 = 5\%$. Around 5% is **visible matter**, 20% **dark matter**. Unity (equality) absorbs, not all can be perceived as being visible.

computer model mimic the evolution—showing “MORE” through “ADDING UP”—of a 4-dimensional universe similar to ours.

II. Quantum entanglement:

Quantum entanglement can be understood as an interpretation or implementation of the Math-Principle.



Since the vertical line can be used twice, one gets two “PLUS” signs, as shown in Figure 9, if the vertical line is read in its twin version. Each “PLUS” sign represents a quantum, a photon. Each photon has its own spin (they exhibit opposite directions), as the perpendicular red and green lines indicate.

A spin can be understood as motionless rotation that is intrinsic to fundamental particles in terms of a fixed property. It’s the particles inner way of implementing “PLUS” which stands for a circular motion of integration and the intrinsic spin—just as the actual, classical spin as a motion in space—is used to interact with force fields. Different particles have different intrinsic spins, depending in which of the two quantum mechanical categories they fall. To reflect “MORE” certain particles, the fermions, can have a spin that says that they would return to their original configuration after two rotations. Since “MORE” is “PLUS” which guarantees that “nothing hap-

pens”, the particles can have different not happening spins, making them different (More) without departing from unity (Plus). “PLUS” as the primal information allows that.

With regard to quantum entanglement, “PLUS” also allows the two different “PLUSES”, the two separate photons, to claim that they are one. Distance then makes no difference. They know of each other faster than the speed of light. This is possible as they make use of space, rather than signaling through space, which is limited by the speed of light.

Again, one can read $Plus=More/Minus=Plus$ as energy going forward through space, that is in time or with light speed, or one can read $Plus=More/Minus=Plus$ as all being one while being “MORE” which is one.

This brings us to the third example: the warp drive.

III. The warp drive concept

Going through space takes time and a lot of energy if one wants to speed things up. Unless one wants to travel as radiation, there is no way of traveling at the speed of light.

Space, however, because of its unity of “MORE” and “PLUS” is not limited by the speed of light that comes into effect if one goes through space.

Unity of space: „MORE“ is not limited by the speed of light. It can go faster than time or the speed of light.

Reading $Plus=More/Minus=Plus$ as going through space, through the actual unity.

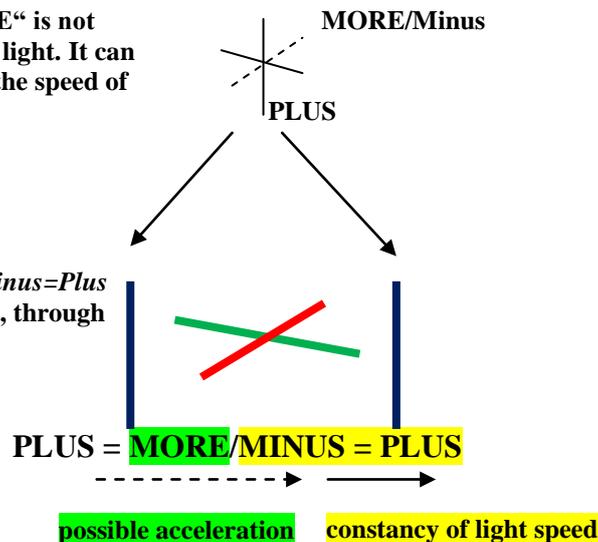


Figure 10

The warp drive concept implements “PLUS” in the following way:

1. A lot of space (MORE) gathered at the back of the spacecraft. This “PLUS” wanting to show “MORE” pushes the spacecraft.
2. In the middle one gets a stable bubble, the EQUAL signs, where “MORE” the spacecraft sits.
3. In front of the spacecraft space gets concentrated. That is the “ADDING UP”, the second “PLUS”. This is pulling in space.

All in all, this allows space to be used to get forward, and as space is not limited by time or the speed of light, one can go faster than light speed.

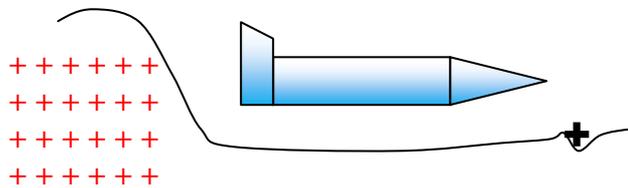


Figure 11

$$\text{PLUS} = \text{MORE/MINUS} = \text{PLUS}$$

Just compare this with an electron flying through a wall. The electron is “PLUS”, the wall is “MORE”. But as “PLUS” is also “MORE”, the electron can be that “MORE” by borrowing energy from the void (Plus) to return it afterward: The electron is the same “PLUS” again, things are even as the energy is returned, and it all happened in a way that the electron has passed through the wall before it happened. It’s all readings of “PLUS”.

A complex system that works is invariably found to have evolved from a simple system that worked.

John Gall
(from: The Personal MBA, 2010, p.308)

A quantum physicist comes home from work. It’s late and he looks tired and dizzy. His loving wife asks: “Honey, what’s the matter?” And the quantum physicist goes: “Oh, it’s nothing!”

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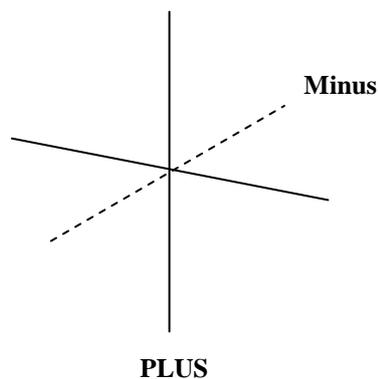
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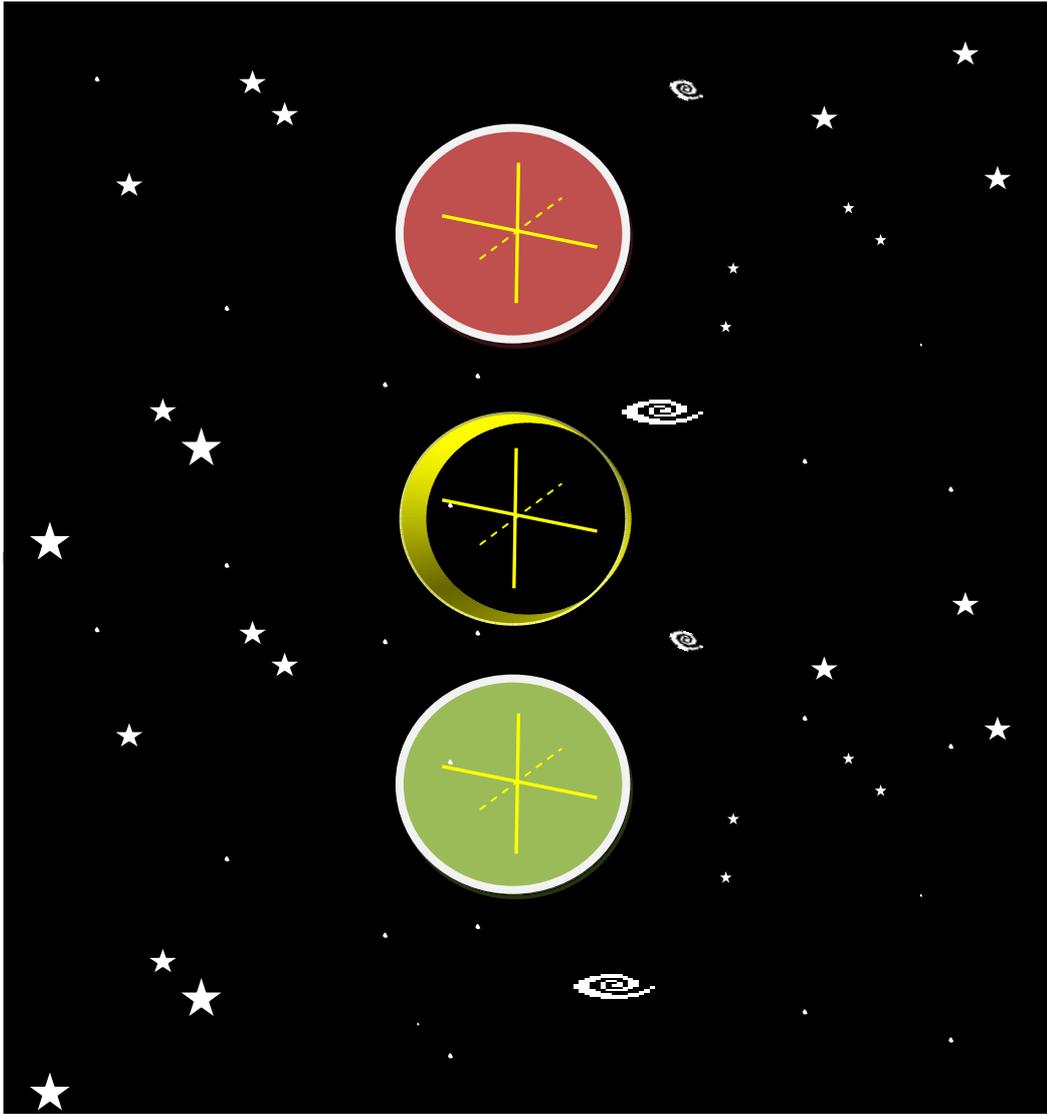
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UNITY-CODE *PLUS*

**-Why Everything, even Quantum Physics, is based on
the Super Simple Energy-Code *Plus*-**

by
George Hohbach

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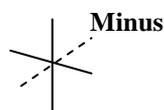
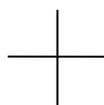
ABSTRACT

The universe is the continuous presentation of just one single piece of information. This is based on mathematics as a process with only one rule, in which energy and information are the same: *PLUS*. By recognizing this mathematical simplicity as the primordial premise, the energy-code “*Plus*” becomes the timeless app which serves as the basic code or principle for all processes in the universe and is easy to use for everyone.

Scientists from all areas claim that all processes in the universe are based on simple rules. The physicist Seth Lloyd, who sees energy and information as complementary features, describes the universe much like a quantum computer that started out with simple formulas. Astrophysicist John Gribbin speaks of “*Deep Simplicity*”, David Bohm of “*Wholeness and Implicate Order*” when it comes to describing the active foundation of the universe as simple, cyclic and omnipresent. Heisenberg and Dürr saw a basic code for vitality encoded in the uncertainty principle, and physicists like Bekenstein stress that the future of physics lies with understanding how information—which Anton Zeilinger, for instance, sees as the key ingredient of the universe—is passed on between systems. Robert Laughlin refers to simple emergence, string theory to continuous vibrations or branes as the simple building blocks of reality. The universe itself is thought to stem from an eternal process of inflation by Guth, Linde or Vilenkin that has its base in an energy-rich void. Different theories from Neil Turok, Paul Steinhardt or Roger Penrose see the universe as a cyclic occurrence, while Max Tegmark considers pure mathematics to be at the core of a multiverse that

continuously adds new universes. Scientists like Capra, Dürr, Wheeler or Chopra showed the correspondence between quantum mechanics, Eastern philosophy and the concept of self-reference, of cybernetic feedback loops. Management experts, neurologists, biologists like Lipton or Kauffman, chemists like Prigogine, mythologists like Campbell, etc. they all point to **simplicity, unity and cyclicity** underlying all aspects and processes man can encounter. Theories like chaos theory or systems theory in general do the same. All these different paths of integrating the polar conditions of our universe result in space- and timeless features, as unity, cyclicity and simplicity are recognized regardless of where or when one observes nature. In much the same way, space- and timeless features of quantum mechanics and general relativity are being used by Hawking, Vilenkin, Krauss or Loll, Ambjørn and Jurkiewicz to show that a universe with 4 dimensions can arise from nothing or a self-similar emptiness. Be it simple play- and design principles as George Smoot alluded to at the TED Conference in 2008 or a future that creatively helps shaping the universe by means of a feedback loop as Paul Davis describes, it always connects with the insight by John Gall that a functioning complex system can only evolve from a simple system that works. In line with this Paul Davies and Sara Walker describe an Algorithmic Origin with regard to life.

Progress in understanding active unity was always accomplished by bringing together seemingly opposite or separated aspects of reality. Einstein, who always sought simplicity as a path to finding basic, underpinning clarity, united energy, space, time and matter as well as the past, present and the future. Quantum mechanics united the flow of time, timelessness as simultaneously existing probabilities and eternal activity to understand all as being based on a universal code for action with its energy base in the void. In this sense, I united the seemingly separate, basic mathematical features *plus* and *minus* in one all-encompassing, active and timeless code: **PLUS**. It can be shown how 3-dimensional space itself serves as the very presentation of the unification of Plus (+) and Minus (-), thereby representing the universal code for action in one very simple structure.



PLUS and Minus added together as one constituting 3-dimensional space. Everyone can see how the universe works.

PLUS

PLUS

Since “PLUS” has a dual meaning and stands for both “*MORE*” and “*ADDING UP*” at the same time, the code “PLUS”, simply put, includes “*Minus*” as “*More*”, and as “*More*” according to the code always gets added up to become “*More*” again, a **cy-
clic, uniform and yet timeless** formalism can be recognized in space that creates everything—including time—through countless repetitions. As “*Plus*” and “*Minus*” (or *More which also stands for multiplication, division, uncertainty, instability, multi-verse, higher dimensions, probabilities, etc.*) are one by definition, the timeless formula becomes: $Plus=Minus=Plus^7$. Since “*More*” always also represents “*Plus*”, the realm of unity and timelessness is never left: “*Plus*” therefore is non-existent at its very core: it is the energy-rich, continuously active, eternal nothing or void from where all starts. This unity causes the equation to be universal as it does not view any kind of possible “*More*”—diversity, an infinite number of possible paths or alternatives—as a divergence from its informational *Plus*-premise. The informational net result of anything then is that “*Nothing ever happens*”, because all can be regarded as “*Plus*”. This is energy.

The simplest mathematical formula with numbers and signs to illustrate “*Plus*” is: **1+2=3** (easier to understand than $1+1=2$ or $1-1=0$ which states the same Plus-premise.)

1(Unity, Plus) + 2(More, divided unity, “less” unity as Minus) = 3(Unity of 1 & 2; Plus)

Consequently it can be demonstrated how energy (that can’t be created or destroyed), time, matter and space as well as the mentioned findings and insights of physicists describe or reveal different manifestations of the simple rule “*Plus*”: be it Einstein’s findings, quantum mechanics, vibrating strings from string theory, the theories of inflation, a detailed look at electromagnetism, the Higgs mechanism, theories about a holographic universe, dark energy and growing entropy or fun stuff like quantum

⁷ **Note: this is not a (recursive) algorithm.** It never leaves its unity, it does not cycle back in time. That is why one can get different interpretations of “PLUS” without them first having to be produced in time. “PLUS” is a principle. This is information, from the Latin origin *informare*: actively bringing something into form.

entanglement, wormholes or the warp drive, “*Plus*” (nothing) serves as the underpinning.

This simple, easy to use app “*Plus*” can also be shown to function as the premise of all processes man encounters: from cosmology to evolution to economics to organic farming to understanding responsibility, to mythology, philosophy and film plots, from investing to management to health, fitness and cooking. “*Plus*” works as a simple, timeless app, as the alternative to the chaos of information.

LIFE. Life is an example that highlights how all of man’s implemented processes are based on *Plus*: Life is easy to understand if you compare it with a molecule. Based on the equation $+ = - = +$, a molecule (*Plus*) receives information (*More/Minus*) and reacts (*Plus* as adding all up and starting a new cycle). The molecule will produce *More*: either by falling apart and becoming more parts (*Minus, decay*) that will be integrated by the environment (*Plus*), or the molecule will grow (*Plus*) itself. Energy is never lost as all is *Plus*. In order to get to this insight, that all is *Plus*, one must understand that *More (Minus)* is actually *Plus*. This is self-awareness: *Plus* treats *More (Minus)* as *Plus*. Self-awareness uses *More* to produce itself (*Plus*). The first hereditary molecule, the RNA, replicated itself as well as proteins (*More*) which it integrated along with lipids for its benefit (*Plus*). That is also how one eventually gets metabolism, for instance, and as itself (*Plus*) is the same all the time, one gets timelessness and activity building something timeless: *Plus*, evolving or more Self-Awareness. If the focus switches to *More (decay)*, life gets in trouble, either through cancer, for instance, or a polluted environment (*more* pieces of trash). Planets that exhibit the superposition of many cycles and influences can create an “*All-is-Plus*” awareness that replicates itself using *More* in form of matter particles.

So the elements of **evolution** as described by Darwin and in other more recent cyclic formalisms like Lipton’s computing chip-like cell membranes, Novak’s five levels of cooperation, Prigogine’s unity- and time density, Capra’s network relationships, Penrose’s, Hammeroff’s and Chopra’s inclusion of recognizable, quantum mechanical influences, etc. can be shown to be an interpretation of *Plus=Minus=Plus*.

PLUS: the energy, the personal condition: **1**

equals: becomes

MINUS/MORE: 1. Mutation as the inner *More* and 2. Selection as the integration, the adding-up of the outside *More*: **2**

equals: summing up all

PLUS: a systematic overview including all paths: the personal condition (Plus, 1) and the More (Minus, 2) as the all-inclusiveness (Plus, 3) that becomes a new cycle aiming to promote *Plus*⁸: **3**

QUANTUM MECHANICS. The cycle of *Plus=Minus=Plus* also depicts the phases that can be recognized in the quantum mechanical measurement process as described in the Copenhagen interpretation of Quantum physics of which Heisenberg gives an account in his book “*Physics and Philosophy*”. **Plus** (the electron) *equals* (becomes) **More** (propagates as a number of alternatives based on its initial Plus-condition) *equals* (all, including the observer and environment, is summed up) **Plus** (intensity of unity as one possibility).

THE ELECTROMAGNETIC WAVE. The electromagnetic wave itself also reveals *Plus=Minus=Plus*: **Plus** (energy as a quantum of energy like a photon) *equals* (becomes) **More** (Expansion as More in unity which—without going into detail—is embodied in a wave pattern) *equals* (summing all up: the frequency that relates to the quantum and the number of photons per second per unit area) **Plus** (the total energy of the wave)⁹.

Latest research results, as mentioned by Pollmann in her article „*Mit allen Quantenmitteln*”, show that organisms make use of quantum entanglement, and since *Plus=Minus=Plus* is used as a timeless code, it becomes clear that all processes: film

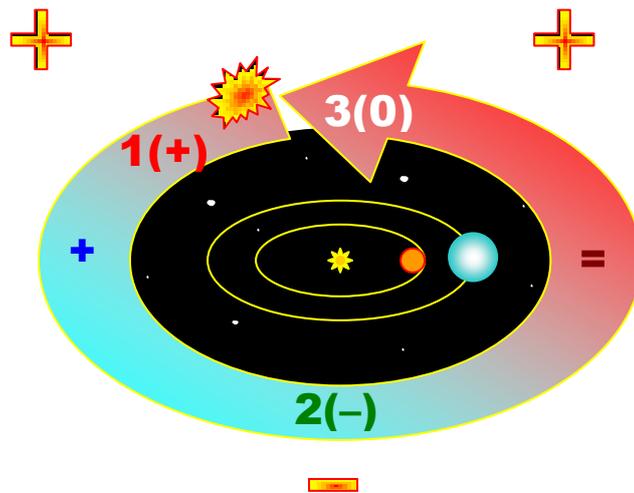
⁸ As life sees all as Plus, even *More*, and is replicating and growing itself, it is *more* attached to cyclic time (phases, *More*) and therefore subject to irreversible, forward heading transformations. If the focus is *more* attached to movement through space (unity) like in deterministic equations of Newton, Einstein or Schrödinger, processes are time-reversible. In his Nobel lecture Prigogine pointed to the variety of time perceptions. *Plus=Minus=Plus* allows for both approaches: reading the equation forwards or backwards. However the arrow of time (becoming *More*, the forward direction) prevails, as *More* is *Plus*' first aspect.

⁹ More examples regarding quantum entanglement or the warp drive concept can be found in the article „*Unity-Code Plus as exemplified by 3-dimensional Space*” on www.george.hobbach.com.

plots, economics, investing, farming, learning, etc. emulate this pattern with man having to emphasize “Plus” over “More”. *Less (Plus, concentration) is “More”*.

Respect for nature is necessary because however beautiful we may find the constructions of our imagination, if they are meant to be representations of the natural world we must take those constructions humbly to nature and seek its consent.

Lee Smolin
(Art, Science and Democracy)



... truth always turns out to be simpler than you thought ...

Richard Feynman
(The Character of Physical Law, 1992, p.171)
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