

Unified Principles of Nature: Solution to the “Problem of Time” II + III

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Abstract

Within the first article „Solution to the Problem of Time“ [3] the author explored the origin of time and suggested the Unified Principles of Nature that must be applied in order to unify Quantum Gravity and General Relativity without contradiction. To emphasize the urging conclusion out of the Solution to the „Problem of Time“ the author summarize in this paper the claim to reintroduce rational thought and argument in science in order to solve pressing problems in human society. Science must consider the Scientific God to unite Quantum Theory and General Relativity into a theory that can describe and predict reality.

Keywords: God, unified principle, nature, problem of time, gravity, TOE.

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A. Solution to the Problem of Time II

1. Introduction

With offering the Solution to the Problem of Time [3] the author introduced the Unified Principle „Time = Cause = God“. This definition of a concept of „Time“ advances on the ideas of Aristotle and Newton, confirming the scientific logic and reasoning suggested by Aristotle and Newton to be right, while suggesting to withdraw the concepts of time used in General Relativity and Quantum Theory.

With this paper the author likes to attach the stream of reasoning to the ideas of Pythagoras and not only describe a framework for a ToE in theoretical physics, but also in mathematics, the main working tool in mathematics.

In „Solution to the Problem of Time“ [3] it was introduced

$$\text{Time} = \text{Cause} = \text{God}$$

this can be understood to set time as agent of action of free will (infinite decisions that are not predictable, but deterministic) as framework for physics to solve Quantum-Gravity and offer a final Theory. If

$$\text{Time} = \text{Cause} = \text{God} = \pi$$

4-Dim Minkowski Spacetime: $(\pi, 1, 1, 1)$; impossible to square a circle \rightarrow falsified

5-Dim Kaluza-Klein-Theory : $(\pi, 1, 1, 1, 1)$; impossible to square a circle \rightarrow falsified

5-Dim ToE Framework: $(\pi, \pi, 1, 1, 1)$; possible

John 1:1 In the beginning was the word $[\pi]$, and the word was with YHWH (God the Father) and the word was YHWH [God the Father = π]

Genesis 1:1 In the beginning YHWH created the heaven and the earth [$\pi = a/b$; the universal constant for Inertia $1/c$ [second/metre] $12\pi c^3 = 1$]

Genesis 1:26 Then he created man of his own likeness and image (God the Son) [$(\pi) \rightarrow (\pi, \pi)$] Gave unto man wisdom ($a/b = \pi$) knowledge ($a/b = 1$) and overstanding ($\pi = 1$)
[(action \leftrightarrow reaction) $\rightarrow (\pi, \pi, 1 \leftrightarrow \pi, 1, 1) \rightarrow$ equilibrium $\rightarrow (\pi, \pi, 1, 1, 1)$]

(mathematical proof for existence of GOD: If „free will“ (decisionmaking) is entered as first premise into our theory of reality, it is mathematical proof that a second „free will“ must be introduced to represent the principle of action-reaction and solve the Black Hole Paradox)

2. A Short History of Time

As start given here is the time in early Egypt prior to building the Great Pyramid of Giza ca. 3000 BC. Assuming that the first physicist and mathematician were used to organize a local community it was necessary to calculate the needs for the amount of food to produce, measurements to organize needs and protection. The early human used not numbers like „1,2,3“, but more complex symbols, so a symbol was initially more a „word“ written as picture. It may be, that in ancient Egypt a „ToE“-Framework was already known, as the Pyramids reflect on the need of 4 identical triangle to construct a square of equal width and length.

$$12\pi c^3 = 1$$

$$\varepsilon_0 = 4c \quad \mu_0 = 3\pi$$

One need 3 dots (triangle) to construct a 2-dimensional spatial coordinate-system including the concept of infinity (90° between a and b for length to compare) and 4 of this triangle reflect on a square. „12 dots“ therefore are needed to construct geometrically an given angular measurement into a square measurement. The use of this could be understand in setting an universal measurement for a society to agree on. In case of the Pyramids of Gizah it could be a „time“ derived from cosmological observation. Tawdrows [1] [2] explains that the Pyramids could be symbol for a Moon Metonic Cycle that repeats 2737 years Mercury, Venus and Saturn.



Picture 1: by Gerges Francis Tawdrous, Solar Group Geometric Structure [2]

„On 3rd December 2012 aligned 3 planets (Mercury, Venus and Saturn) on the three Great Pyramids heads in Egypt, the Phenomenon repeated just once each 2737 years. I called this phenomenon The 2737 Egyptian Astronomic Phenomenon“

(G F Tawdrous)[2]

This would make sense, as the ToE Framework predicts that our Solar System does not depend on mass (Gravitation), but the movements of the planet are a mirror of the change of the flux in the magnetic field of earth. While the moon itself does not have a magnetic field, Mercury, Venus and Saturn do have a magnetic field as earth, while as Mars and Jupiter seem to have effects in their magnetic field, that is not jet understood. Furthermore: If a society is in knowledge of the ToE Framework, then there is need to find a universal time-definition

that combines all movements in the Solar System. For this it is sufficient to use 4 objects to represent $(-\pi, 1, 1, 1)$, as the observer himself must not be included. As the magnetic field of Saturn, Mercury, Venus and Earth are involved (that are working similar while Moon, Mars, Jupiter seem to have other functionalities in Solar System Electromagnetic flux)

It is said that Pythagoras from Samos (ca 510 -570 BC) visited Egypt as well as he visited Babylon (of Nebukadnezar II). Without going into detail of the history and downfall of those Empires and the origin of Old Testament, New Testament and later Koran it is said that Pythagoras from Samos was working political and offering a spiritual / religious approach focusing a wealthy society after he returned to Samos.

Trying to imagine how human thinking evolved in the early days from changing complex symbols into numbers, one can imagine the main process of perception human as well as animals depend on. The main process our brain is working on is „counting“ (particles, using numbers) and „comparing“ (using circles). On the other hand, we must be careful to not mix up counting and comparing. While the circle and the π is representing the „concept“ of calculating within an iteration an equilibrium of countable forces (vectors like action and reaction), there is no sense in calculating this „number“ to infinite digits, as it only represents a „concept“ in terms of an algorithm.

Our brain always associate some „dimension“ to a „number“, like we think of 2 apples and three trees or 1 car and 10 people. In this terms every number is „complex“, as it can have a complex meaning. If we think about „space“, this is an easy task, as the brains just thinks of 3 times the length of a given stone or ruler. To think about the dimension of „time“, our brain faces serious problems, as there is nothing to „compare“ we can use to imagine or explain this dimension.

To explain this, it is shown how „counting“ and „comparing“ evolves by introducing the concept of addition and numbers in the beginning. First we only have the number „1“, that represent „everything“, the „whole“. The all valid instrument „measurement“.

To create a second identical entity to calculate $1+1=2$ as a spatial representation of a straight line from Point A to Point B, one has to create two vectors of identical length that could be added in space. To do this, both vectors must be of equal length and set on another at 180° . For this is needed an triangle where one side a and another b are at 90° to create 180° (straight line) for both vectors.

Therefore

$$a^2 + b^2 = c^3 \text{ (Pythagoras } 90^\circ \text{ vs } 180^\circ)$$

$$1^2 + 1^2 = (\sqrt{2})^2 \rightarrow 1 + 1 = 2$$

This way it is shown that the process of „addition“ (counting) already is „irrational“, as all numbers other than „1“ are irrational. This is logical, as counting numbers alone is irrational as it could be

- „1“ = 1 apple
- „2“ = 2 fish
- „3“ = 3 trees
- „4“ = 144 Pyramids + 3 trees

On the other hand these numbers are rational at the same time, as they carry $(\sqrt{2})^2$ as concept (representation for π) within, that says „5“ is five times the spatial linear length as 1. On the other hand this „counting“ cannot be applied to the dimension of „time“ but only on spatial dimensions that allow no infinity. „creating time“ could be symbolized in the idea, that we fix our eyes in certain position and move our body „360 degree“ = 1 rotation. This way we perceive a „picture“ of 2D space in our brain while introducing the concept of „infinity“ and the concept of „Zero“, as a full rotation „1 circle“ sets infinite possible small steps (numbers) as well as „Zero“, because while drawing a circle with a pencil and use of a cord / string as radius after one rotation is finished, the circle resets to Zero (360 degree = 0 degree)

Therefore some basic axiomatic ToE framework for mathematics could be introduced to describe Pythagoras Pi

Pi can be used to compare a and b representing $(\pi, 1, 1)$ ($a=b$)
 and Pi can be used for counting events $(\pi, \pi, 1)$ (full 1 or 0 rotation = 2π)

Starting an equation like $a = b$ one can introduce at one time comparison, equivalence, addition, subtraction, multiplication and division with setting

$$a = b \iff \frac{a}{b} = 1$$

The brain needs to address a dimension to the „number“ „1“. Here it becomes that „1“ means a full rotation over a circle. Therefore the ToE equation in „mathematics“ for 2 Dimensional perception, where one dimension is counting (numbers) while the other is comparing (measure)

$$\frac{a}{b} = 1; \frac{a}{b} = \pi; \pi = 1$$

for action ↔ reaction in terms of space interacting with time

$$(\pi, 1, 1) \leftrightarrow (\pi, \pi, 1)$$

In general this logic draws the conclusion that the thinking of Pythagoras is in line with Aristotle and with Newton. Aristotle thought that there is no „weight“ / „mass“, therefore all objects in Gravitation would fall at the same velocity. As Time itself is the distance between Point A and Point B. Newton’s well known action – reaction principle is not different from Pythagoras triangle with one angle being 90°. If two vectors (forces, velocity, space, time) should be added that includes comparing and counting to create the foundation of mathematics, the action – reaction should be the first principle to consider.

A ToE in mathematics is written like : The observer is the observed (see [3]). The meaning of this is: if i decide to fix my eyes and rotate 360 degree like a radar or lighthouse, i can perceive a full picture of two dimensional reality, but the „action“ is my decision to move and my own movement. This „action“ can be symbolized as

$$\pi = 1$$

The „1“ stands for 1 rotation including free will to decide if the circle is divided in 4 steps, 360 steps, 10.000 steps or infinity. Both, using a pencil, paper and a cord string to draw a circle is an action as well as it is algorithm to „construct“ a circle with the action of „counting“ numbers. As well it could be used as symbol for equilibrium of infinite forces, as one is free to choose how many forces (vectors = digits) one likes to calculate. In this sense π is not a number at all, but a complex symbol that represents „trinity“ that is three dots in space to span two vectors of equal length while introducing the concept of infinity (counting numbers).

$$,, 1 ,, 1,, \pi$$

can stand for one rotation (one infinity) , one Zero, one 2 = 1+1=2
also could be described if thinking of developing the thinking from animal to human being in evolution theory:

The Father (1) created the son (1) of his own image and used for this the holy spirit (space as thought of vacuum = π as symbol for the algorithm to create space in mind)

The ToE in physics is written (see [1]):

$$\pi = \frac{1}{12} \frac{\text{second}^3}{\text{metre}^3} ; 12 \pi c^3 = 1$$

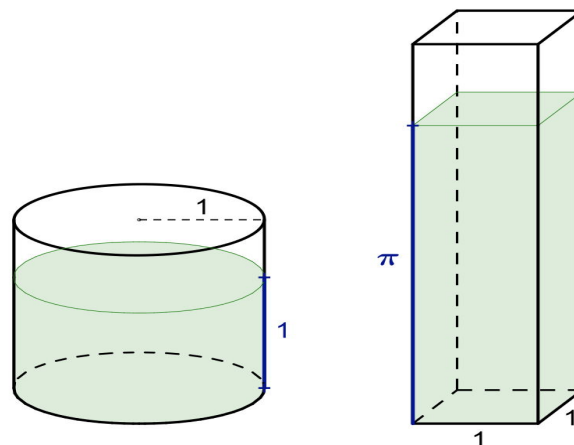
It is obvious that once introduced a concept for the perception of space in two dimension (horizontally) one cannot create a second concept of infinity doing this in vertical position. Therefore the transformation into 3 dimension is done with geometric projection. To understand the concept of Inertia and Gravity, one can look at the „problem“ of Infinity and division by Zero in Mathematics. Using $\pi=1$ Infinity and Zero can be introduced as Set of equations representing the functions of our brain

$$\frac{1}{\pi} = 1; \frac{\pi}{1} = \infty; 0; \frac{\pi}{0} = \infty$$

(The Problem of $\sqrt{2}$ belongs to the circumference of the circle).

The geometrical concept of Inertia is represented with the dimension [metre / second] (creation of space out of time), representing motion along a vector while the geometrical concept of Gravity is represented with the dimension [second / metre] [creation of time out of space], representing motion in a circle. The two vectors of forces are spanning up a two dimensional space with two vectors perpendicular to each other.

Another way to to construct a Pyramid to calculate π as an analogue process can be shown if the know process for comparing space as 3-dim square stone (that carry the concept of infinity $\sqrt{2}$ in his measure) insted of 2 dimensional angular space is known as an algorithm called „turning water into wine“ which is done by using an circular bottle of water to fill into an squared bottle in order to calculate the „Number“ π geometrically. (Squaring a circle)



Picture 2.: Turning Water into Wine

Which basically reflects the Black-Hole to White Hole transition amplitude in Universe. If the left container is the concept of a white hole (creating space in universe) and the right container is seen as the black hole consuming space the flux is calculated

$$\frac{d}{dc} \left[\frac{d}{dc} [c^3] \pi c^2 \right] = constant = 1 \text{ [using } (1, \pi, \pi) (1, 1, \pi) \text{ as model for perception]}$$

One could then argue that 4-D space-time used by theory of general relativity (Einstein) would represent then $(\pi, 1, 1, 1)$ as constructor for space-time while Kaluza-Klein Theory $(1, 1, \pi, 1, 1)$ as 5 Dimensional approach. With $12\pi c^3 = 1$ it was suggested in the first article [3] that the final theory uses $(\pi, 1, 1, 1, \pi)$ where each one π represent the observer (human being) and the observed (God represented within the observer / Duality)

While in the Revelation to John of Patmos (ca. 60 AC) it is explained the concept to build a holy city for society on base of a holy measurement and 4 times 3 gates to be a 12 crystal (particle) foundation it is not known to the author if this is also described in the Koran, that later was developed. Considering that John of Patmos is said to be born 6 AD the incidence of „*The 2737 Egyptian Astronomic Phenomenon*“ on 3.12.2018 could relate by the author possibly to that, as the author has visited Patmos in 2012 with a sailing vessel names „Nikolaos“, while in 2018 Stephen Hawking died after a non answered email from this author and this author received a Vision on how to build the ToE Framework related to the Revelation to John of Patmos in end of March / Beginning April of 2018. Greta Thunberg started her activity of protest in August 2018.

Within the first article the author set up the equation $\text{time} = \text{cause} = \text{GOD}$, in order to symbolize that the dimension of time needs to be treated special. Historically, one could argue that today's crisis in theoretical physics is originated by the stream of thinking on the ideas of Descartes that could be summarized as „I think therefore I am“, while Newton may have argued „God created me, therefore I am“. Given at that time the power and political influence of churches, scientist of that time might have felt the wish to protect themselves against the power of religion and by mistake invented „GOD“ within science in order to be free from politics and churches.

It would be incorrect to overlook the serious damage scientific community is doing to itself with keeping up wrong images of reality just to not loose this power that went mistakenly into science. In a neutral analysis one might be able to argue that „science“ and / or politics has stolen „GOD“ from the churches while introducing „time“ to be a dimension that scientist are responsible of to explain and to define. On the other hand it would be no solution to give any „Religion“ the favor over another as the Problem is more accurately that we all are based on the same perception-tool that is the concept of π , an algorithm that has a complex meaning, yet can be applied in physics easy. Understanding the Concept of holy Trinity, one could argue that it is useful to accept π as „GOD“ in Mathematics, as it is symbol for complex numbers and creation of addition and subtraction in the beginning as well as the origin of numbers. While in ancient greece (Pythagoras, Platon, Sokrates, Aristotle etc) were mainly concerned about the right „Religion“ (moral, politics, medicine) to use, Physics in this sense is limited to do Religion, once accepted that π is the only constant that nature is build on, while it represents free will and acceptance of the fact, that „science“ is not „free“, but there is a commandment to use the right science. Other than in mathematics, the GOD in Physics should be $(\pi, 1, 1, 1, \pi)$.

The most matching approach available today use the Rastafari (Peter Tosh, Bob Marley, Bunny Wailer) to use in language to speak of „I and I“, while speaking in name of father son and holy doesn‘t make sense.

In this context science historically was not free from political influence.

„During the early years of the French Revolution, the leaders of the French National Constituent Assembly decided to introduce a new system of measurement that was based on the principles of logic and natural phenomena. The meter was defined as one ten-millionth of the distance from the north pole to the equator and the kilogram as the mass of one thousandth of a cubic meter of pure water“ (wikipedia)

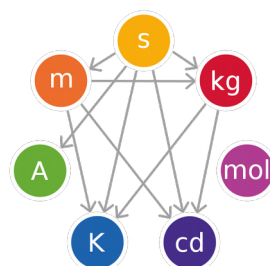
Earlier, at 1800 Thomas Young presented his theory about the idea that light is (also) a wave in motion. Later this was widely accepted. Having in mind the fact that following ToE light cannot be described as a circle this was a misleading interpretation in retrospective.

After the Colonial-Period the measurement system carried from ancient Egypt and Babylon over Greece, the Roman Empire and further lead to the Metre Convention 1875 to be Basis for the Western Society that most of all nations base there measurement on.

(https://en.wikipedia.org/wiki/Metre_Convention)

Original the weight (gravitational force) was defined with use of a 3-D Volume (like 1 metre³ of water at a certain temperature. The meter originally was defined as ca. 10^{-7} of the $\frac{1}{4}$ circumference of planet earth. As the second of time was designed on basis of the gravitational force that is acting between the water and earth while using the relative motion between sun and earth as „clock“ to assume that the force between sun and earth in solar system is of same principle as the force between water and earth on earth. Considering the reasoning of perception and ToE-Framework $12\pi c^3 = 1$, the System of Units to describe, explain and predict nature is allowed only to consist on base of Meter of space and second of time, while time as God π is the origin (BIG BANG) from which time as circular motion can construct a linear motion (2 dimensional Information-Theory for transforming (π, π) into 3 dimensional space (1,1,1)

With the Metre-Convention they were 7 Base-Units introduced that all rely on the „ill“ defined Unit of a second, that generated the Kilogram for measuring the amount of bread, meat, and banana with the same instrument as we measure solar system with and the universe [4]:



Looking back in history the definition of this 7 Base-Units in retrospection could be described as the seven deadly sins (https://en.wikipedia.org/wiki/Seven_deadly_sins) as using such measurement must consequently lead to a failing society and to failing economic system.

Within the original paper of Theory of Special Relativity from 1905 Einstein did no mistake in the first §1 to define time correctly, but failed to understand that how his (german) „Zeitweg“ described as distance between Point A and Point B must be transformed into a definition of a clock that is able to distinguish between two timelike dimensions. That must have be the universal time-flow π_{universe} and the individual (local) time π_{observer} .

As he kept the idea of light being a wave he applied the concept of a fixed speed as constant in universe c_{vacuum} and applied this to the electrodynamical part of his work. This in consequence lead to the irrational situation that light was introduced as π_{universe} , as the assumption of light being a wave representing energy is the introduction of an second time (Frequency [Hz]) with no physical origin.

In 2019, the SI base units were redefined, effective on 144th anniversary of the Metre Convention, 20 May 2019. 20 May is also birthday of this author in time and this author was born in the city of Cologne near the Cologne Cathedral and the shrine of the three kings. Unfortunately the "seven SI base units all depend and are derived from the "second of time", which is today defined on base of the Caesium-Atom. This is due to the fact that physics by mistake defined the Caesium-Atom as living God that creates “time” and turns out to be the “devil” that is causing the reason why economic systems fail to function stable and overpopulation became a problem after the gravitational force was introduced as a measuring-instrument after Newton, although Newton warned to not understand the Solar System as a mechanical “machine”.

It is logical that Isaac Newton after this was mainly studying the Bible to make predictions from his theory. But if taken “God” (space and time) out of Newton’s Mechanic, his law for Gravitation is not valid any more. Due to this serious misconception in the Base-Si-Unity system derived from the tradition of the downfall of a Golden age - that was caused likely in a “war” in ancient Egypt in which this knowledge got lost – we fact today a corrupted system for measurement in science, politics, and economics.

Extracting God out of science again and free science from religion on the one hand will solve the crises in physics that scientific community and science face since 1700. On the other hand it will lead logically to less friction and fight, as if science is not longer responsible to „explain“ why things happen (see “Kopenhagen Interpretation of Quantum Theory” and the “Bohr-Einstein-Debate”), science could focus back on the original intention of just calculating correct predictions with the correct mathematics.

The crises became serious after the Kopenhagen-Interpretation of Quantum Theory (1929) in which Physics finally excluded the concept of causality in physics and introduced and „inverse causality“, namely, that the effect (Probability-Distribution) should be cause that

those add up to a distribution of 1. This is due to the assumption that Photons are waves as suggested by Young. The definition of light as a wave induces a probability-distribution that adds up to 1.

The greatest Tragedy could be pointed at, that Fritz Zwicky who suggest the tired light explanation (https://en.wikipedia.org/wiki/Fritz_Zwicky) in 1929 was ignored, as in fact his hypothesis now turns out to be the correct cosmological interpretation and it was suggesting the Planck's Energy Quantum as well as Heisenberg's Uncertainty-principle as well as Einstein's General Relativity were a misconception already in 1929. Even the Bohr's Model of the atom was wrong at the same time. Eventually the development of the atomic bomb could have been prevented if at that time we would have had the proper atomic model.

3. Pythagoras, Aristotle, Newton and Einstein on „Time“

One could summarize the concept of time described by Ancient Egypt , Aristotle, Newton as well as Einstein with the concept of an „unmoved mover“ (GOD). If it would be possible to connect the concept of time to periodic events (i.E. solar system in our galaxy / universe in general) a „day“ of time could be defined as the sun encircling earth or the earth encircling its own axis. A more general time could be defined if all planets, stars and galaxies would be included into a concept of time. Defining time as movement of „all“ planets, stars and galaxies would make it impossible to define time as some „periodic“ event (frequency) because each day the universe in relation to the surface of the earth looks different and the sky will never look the same again as yesterday or as last year.

In nature we cannot observe time directly, as we don't have anything that can be used for a comparison to introduce a process of „counting“ onto the dimension of time or to define „time“, like we can define the kilogram as quantity of water in a defined space and the meter (space) in units of the length of a certain stone. All this dimensions are accessible for a comparison, while the dimension of time lacks the property of being comparable with anything we can find on earth. Therefore the concept of trying to link time not to small steps, but to the largest steps we can find is the reasonable solution.

If it turns out to be that the culture in ancient Egypt decided to fix an event that occurs only each 2737 years, one must argue that they understood the solar system, the universe and the quantum-theory, while we turned the upside down and seem to be acting most irrational as possible. But this is logical outcome that can be predicted if one sets the concept of Energy to be inverse proportional between Cosmological theories and Atomic Theories. In consequence the author must state that due to this findings, animals are thinking same as human being, but the difference between animals and human being seem to be that human thinking got corrupted 5000years ago and led to an unconditional unweathy growth and we constantly try to destroy our self as well as our planet.

4. Time as periodic event : The birth of Quantum Theory and Theory of general Relativity

Defining time as a periodic event lead to the consequence that time is defined on basis of a force. If time is defined as earth encircling sun or its own axis, time is defined on either the gravitational force or (at the same time) on the concept of inertia. If time is defined as a frequency observed using an atom (Caesium), time is defined on the basis of the electromagnetic force. Using „clocks“ to measure (define) time, we therefore always define time on base of „forces“. Understanding this phenomena, it is easy to understand why „clocks“ in general always measure different time-flow depending on their exposure to gravitational force or depending on the motion of a clock within (relative) an electromagnetic field.

There comes another general phenomena into observation if time is defined on basis of periodic events (and measured with „clocks“): Quantisation in Energy.

As soon time is defined by an periodic event (frequency), all phenomenon observed in nature will be „quantized“, because a time below a frequency of 1 Hz is not defined. The smallest (biggest) portion of time will always be the frequency of 1 Hz, which represents a full rotation and therefore a quantized „portion“ of energy. This is due to the fact that at $\frac{1}{2}$ a day or $\frac{1}{2}$ a circle of earth encircling sun it is not sure if the full circle (event) will be done and therefore if the periodic event will occur in order to move the clock one „step“ ahead. Mathematically it is not allowed to use PI as concept for $\frac{1}{4}$ of an circle, if we want introduce the concept of „infinity“ into science correct, because the concept of energy can only be applied to a full rotation (1,360 degree).

Using PI as representation for infinity, we can apply „infinity“ only on a full circle as otherwise we would end up comparing infinite infinities. Both, the concept of infinity and division by zero belong to the concept of PI, representing the concept of comparison to build equations (mathematics / thinking). The wave particle-dualism therefore just comes into observation as the concept of periodic events is defined by introducing the concept of periodic events by suggesting that light should be a wave in order to fit to a wrong theory.

On the other hand, reality is not quantized if time is just defined as a vector (Time = cause = God = unmoved mover = force) and it is known that „clocks“ can only be build on basis of astronomical calendars preferable with long scales.

5. Unification of Four Forces into one Force

If time = cause = force each time (force) splits up energy at the frequency of 1Hz in positive and negative energy to equal out energy to Zero. Therefore each definition of time based on periodic events creates a big bang that defines positive and negative energy. The „beginning“ (Big Bang, white hole) is represented with starting to „draw“ a circle at 0 degree, while the „end“ (Black Hole) is represented with finishing the circle at 360 degree. As additional to the

working time (origin : surface of earth in action ↔ reaction with the cosmic sphere) there are by mistake two different times „defined“ in the Standard-Model, which are the center of sun (center of solar system as origin of gravitational time) and the frequency of the Caesium-Atom. Therefore are resulting three forces that in total including gravity (creation of time) span up four forces. that cannot be combined unless the concept of time is defined well within the Base-SI-Units. The Base-SI-Units must be reduced to two Units only (Meter of Space and Second of Time) to represent the action-reaction principle and account for a holy measurement (language in mathematics represented by π , while the Meter of space is representing the thought (space) and the second is representing the emotion. The new value for society would be a „balance“ between feeling and thinking that lead in consequence to a linear optimization of comfort and healthiness for individuals and society.

6. The “Problem of Time” is still present and pressing since Zwicky 1929 and Bohm 1990

Artists, scientists, spiritual leaders and economists gathered in Amsterdam in 1990 to explore the emerging paradigm of a holistic world view and the implications for a global economy. The five day conference was inspired by the artists Joseph Beuys and Robert Filliou, and manifested by Louwrien Wijers, who called it a "mental sculpture".

Within the discussions, Quantum-Physicist David Bohm explained, that there seem to be a mistake in human thinking which is origin of incoherent thinking, that is origin of the fact that we (human being) are producing results that we don't really want. Bohm expressed his opinion, that over thousands of years a way of thinking might have developed, that might be different from the original way of thinking. [5,6]

Some initial ideas presented by Connes and Rovelli in 1994 [6] proposed a radical shift by defining the time-flow in universe based on the thermal state of a system. Following the suggestion by Connes and Rovelli the fundamental concept of „time“ would be taken out of the physical model and be exchanged with the description of the thermal state of the system.

This idea in fact is an approach to first mark the concept of time as origin of irrational thought within existing models of reality and gives space to introduce the concept of time in such a way, that would consider time as „cause“, instead of defining time as an irrational (circular) argument. This kind of approach consequently lead to the Loop-Quantum-Gravity approach that is trying to „tunnel“ a Black Hole to a White Hole. But Having in mind the definition of „time“ in physics, nature is not quantized by nature, but by definition due to an circular argument. Therefore the Information-Paradox of the Black-Hole Theory can only be solved if it is introduced the correct definition of time.

The definition for „time“ used today in all states and economies in the world is dictating with nations constitutions to use irrational thought and action as the underlying most fundamental concept of „science“ in general.

To become a scientist and „grown up intellectual“ in the „civilized modern world“, we teach our children that they must agree to set the effect as cause in the beginning of our model of reality (deny science and „pray“ to the money and economic system build on base of a “ponzi-scheme” / “Pyramid-scheme” to exploit citizens on earth) in order to learn and agree on irrational thinking as the most fundamental concept of society.

7. Claim to correct misconception in todays physics (Introduction of scientific God)

The crises in today physics (dark energy, dark matter, quantum-gravity, interpretation of quantum theory) can be resolved only, if the definition of time is corrected. The „Problem of Time“ in physics is at the same time the „Problem of climate change“, „Problem of global ill defined monetary wealthfare“, „Problem of Terror“, „Problem of Pollution“, „Problem of overpopulation“.. etc.

Today the International Bureau of Measurement [4] provides the definition of time and space as following:

„The second, symbol s, is the SI unit of time. It is defined by taking the fixed numerical value of the caesium frequency $\Delta\nu_{\text{Cs}}$, the unperturbed ground-state hyperfine transition frequency of the caesium-133 atom, to be 9 192 631 770 when expressed in the unit Hz, which is equal to s^{-1} “

„The metre, symbol m, is the SI unit of length. It is defined by taking the fixed numerical value of the speed of light in vacuum c to be 299 792 458 when expressed in the unit $m s^{-1}$, where the second is defined in terms of the caesium frequency $\Delta\nu_{\text{Cs}}$.“

As discussed in this paper and based on the findings in the „Solution to the Problem of Time“ [3] the definition of time based on a periodic event is indicated as the origin of a misleading model of reality offered by „science“ today as well as origin of irrational thought and action of „modern“ society.

To correct the ill defined concept of time in science the author claims a basic human right that is the use of a correct definition of „time“ as fundamental basis for scientific (logical, rational) argument. Otherwise the actual definition of time contradicts mostly all state-constitutions based on free Religion and acceptance of God.

In example, the constitution of Switzerland is given in the Name of God in this words :

Federal Constitution of the Swiss Confederation
of 18 April 1999 (Status as of 23 September 2018)

Preamble

In the name of Almighty God!

The Swiss People and the Cantons, mindful of their responsibility towards creation, resolved to renew their alliance so as to strengthen liberty, democracy, independence and peace in a spirit of solidarity and openness towards the world, determined to live together with mutual consideration and respect for their diversity, conscious of their common achievements and their responsibility towards future generations, and in the knowledge that only those who use their freedom remain free, and that the strength of a people is measured by the well-being of its weakest members, adopt the following Constitution

The connection between basic human rights and the definition of time in science / physics / states / economies is obvious: The freedom of speech and the freedom of opinion cannot be given on the definition of time (God) within society, as the definition of time is as well basis for law and order as well it is basis for contracting in economy as well it is basis for a definition of mental health or mental disorder.

The claim for (new = correct) definition of time and space:

The second, symbol s, is the SI unit of time. It is defined by taking the fixed numerical value of the speed of light c when expressed in the unit s m⁻¹ s:

One second is the duration light needs to travel c meters.

The metre, symbol m, is the SI unit of length. It is defined by taking the fixed numerical value of the speed of light c when expressed in the unit m s⁻¹:

One metre is the distance light travels in 1/c seconds.

This way the „irrational“ thought (circular argument) in the fundamental body of science (space-time) is eliminated, as time is defined on base of speed of light ($c = \pi = \text{mathematics} = \text{God}$) as well as space is defined on base of speed of light ($c = \pi = \text{mathematics} = \text{God}$). Speed of light is to be calculated then and defined by geometrical analysis of the motions and electromagnetic-fields in solar system relative to motions and electromagnetic field of earth. As discussed in „The Solution to the Problem of time“ [3], the speed of light can be calculated as a stable rate of information on a 2-dimensional surface, that is the ratio of diameter and circumference of a circle representing the balance of thought and emotion of the observer. $1 = 12\pi c^3$

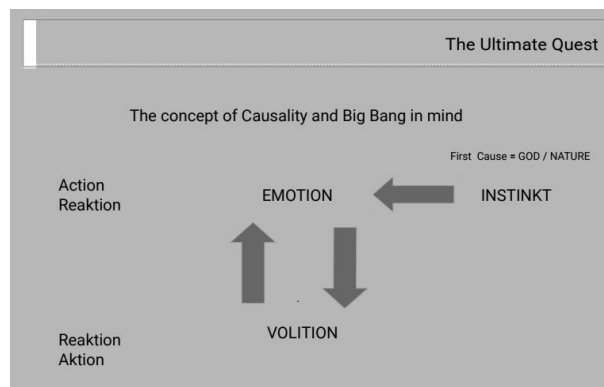
As discussed in the first paper [3], there are three spatial dimensions and two time-like

dimensions in nature. As the concept of time is the concept a unified force in a holographic world model, it is possible to work with two „ratios“ between space and time :

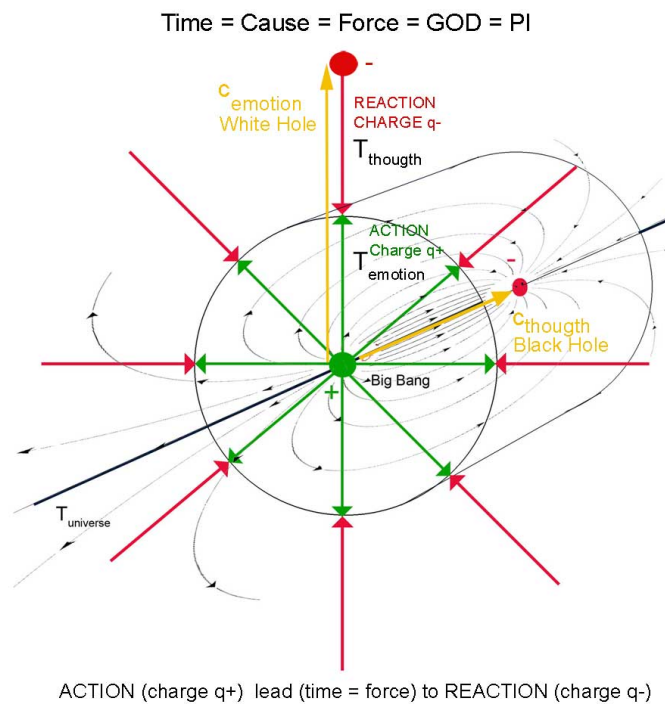
C_e : $C_{emotion}$: emotion

C_t : $C_{thought}$: thought

While emotion is conditioning thought and thought is conditioning emotion, it is not possible to distinguish between what is right and what is wrong, as into this feedback-loop the emotion get a input from „instinct“ (Emotion = I and I, dual personality). In this context it is only possible to set as „right“ the linear optimization between the balance of emotion and thought as measuring-instrument for healthiness. (individual and society).



Picture 3.: Analog comparator with feedback-loop in brain



Picture 4.: Unified Field

8. Conclusions for Quantum Theory and General Relativity

Speed of Light

The Solution to the Problem of Time suggest to model reality as a 3-dim. hologram of the 2-dim. thought and emotion of the observer (human being). While „thought“ should have its representation as „space“ (distance, place, inertia), „emotion“ should have its representation as „time“ (cause, gravity, GOD, one love“).

$$\frac{d}{dc} \left[\frac{d}{dc} [c^3] \pi c^2 \right] = constant = 1$$

$$12\pi c^3 = 1$$

The suggested equation reflects the premise of the constancy of the sum of information while projecting a 2 dimensional picture of thought and emotion into a 3-dimensional hologram.

Unified field constants

$$\varepsilon_0 \mu_0 c^2 = 1$$

$$\varepsilon_0 = 4c \quad \mu_0 = 3\pi$$

The suggested equation reflects the premise of the constancy of the sum of information while projecting a 2 dimensional picture of thought and emotion into a 3-dimensional hologram.

The Planck's Constant

$$h = 5 \cdot \frac{d \frac{(\pi c^2)}{dc}}{\frac{dc}{c^6}} = \frac{10\pi}{6c^4} = 6,618711... \cdot 10^{-34}; \frac{s^4}{m^4} \quad (1)$$

Energy, Mass, Charge

$$\Delta E = h \cdot f \quad \text{with new definition of time / Planck's constant turns into} \quad \frac{1}{(\Delta m)} = h \cdot f \quad (2)$$

$$\text{with } \Delta E = \Delta m \cdot c^2 \text{ turns into } \frac{\Delta E}{c^2} = \frac{1}{hf} \text{ that is}$$

$$\Delta E = c^2 h^{-1} f^{-1} \quad (3)$$

with (1)

$$\Delta E = \frac{6}{5} \cdot c^6 \cdot \omega^{-1} \quad \left[\frac{m^6}{s^5} \right] \quad (4)$$

The general definition of energy is the unification of gravity / general relativity ($E = m \cdot c^2$) with quantum theory ($\Delta E = h \cdot f$).

Mass is calculated then by

$$\Delta m = \frac{6}{5} \cdot c^4 \cdot \omega^{-1} \left[\frac{m^4}{s^3} \right]$$

with $\Delta m = ct_c \cdot 4 \cdot c^3$ (see [3])

can be transformed for the „two“ involved times to

$$\frac{1}{5} = \frac{4t_t}{3T_e}$$

The Fine-Structure Constant

Due to the change of the units of the Planck's constant following the correct definition of time this constant becomes the dimension of a velocity and therefore a relation between space and time calculated by using a force that considers m^5/s^5 (c^5) in 4 dimension $((6G)^4)$.

$$\alpha = 10^{-7} \cdot \frac{6}{5} \cdot c^5 \cdot (6G)^4 \text{ [m/s]} \quad (1/137,8.. \text{ m/s})$$

while

$$G = \frac{1}{4\pi 4c} \text{ [s/m]}$$

The original interpretation of this constant by Sommerfeld was, that it should be a ratio between the velocity of the speed of light and the velocity of the electron in the first circular orbit of Bohrs's model of the atom. Nevertheless this constant has ever been a mystery not because of its value, but because of its wide meaning in physics while this constant has no dimension.

It must be argued that such „dimensionless“ constant is not only a hint that points to some unknown properties of nature, but to a mistake and wrong interpretation of our models of reality.

As the fine-structure-constant describes the strength of the electromagnetic interaction between elementary charges particles it should have a dimension that indicates the origin of the underlying force. The author reminds the reader on some basic reasoning in physics. If a theory explains a force with a dimensionless constant, this is a scientific falsification for the theory. In fact General Relativity Theory as well as Quantum Theory are already falsified since Sommerfeld 1916 found and introduced this constant.

Feynman

„There is a most profound and beautiful question associated with the observed coupling constant, e – the amplitude for a real electron to emit or absorb a real photon. It is a simple number that has been experimentally determined to be close to 0.08542455. (My physicist friends won't recognize this number, because they like to remember it as the inverse of its square: about 137.03597 with about an uncertainty of about 2 in the last decimal place. It has been a mystery ever since it was discovered more than fifty years ago, and all good theoretical physicists put this number up on their wall and worry about it.) Immediately you would like to know where this number for a coupling comes from: is it related to pi or perhaps to the base of natural logarithms? Nobody knows. It's one of the greatest damn mysteries of physics: a magic number that comes to us with no understanding by man. You might say the "hand of God" wrote that number, and "we don't know how He pushed his pencil." We know what kind of a dance to do experimentally to measure this number very accurately, but we don't know what kind of dance to do on the computer to make this number come out, without putting it in secretly!“

— [Richard P. Feynman](#) (1985). *QED: The Strange Theory of Light and Matter*. [Princeton University Press](#). p. 129. [ISBN](#) .

is one of the physicist that worried as well as Wolfgang Pauli, who related this constant to a „world-clock-mechanism“ [8]

In fact it is quite simple: It was thrown in a meaningless dimensionless number with the definition of time into our world that is the unperturbed ground-state hyperfine transition frequency of the caesium-133 atom, to be 9 192 631 770.

This number represents the velocity-relation between Sun and earth into the relation between the movements in Bohr's Atom model on the lowest energy-level. In consequence of putting into the measurement a dimensionless number 9 192 631 770 from solar system into the model of Atoms it comes out a dimensionless number „1/137“ explaining the relation between Gravitation and electromagnetic force.

Having the dimension of a velocity, this constant becomes the „second“ time-dimension we need. It then indicates the „gravitational force“, namely time as proportional entity to space itself as the unified force. As the fine-structure-constant is of dimension [m/s] in ToE-framework (representing observed „inertia“), the gravitational constant is of dimension [s/m] (representing observed „gravity“)

Considering the Fine-Structure-Constant to be $\alpha = 10^{-7} \cdot \frac{6}{5} \cdot c^5 \cdot \left(\frac{6}{4\pi 4c} \right)^4$ [m/s]

and the today's vacuum-constants for the electromagnetic field

$$\mu_0 = 10^{-7} \cdot 4\pi$$

$$\varepsilon_0 = (10^{-7} \cdot 4\pi \cdot c^2)^{-1}$$

one can asked why those three constants for the electromagnetic foundations are factored 10^7 . It is to consider here, that the "meter" in the Base-SI-Units is defined as $\sim 10^{-7}$ times $1/4$ of the circumference of planet earth while $G = 1/ (4 \pi 4c)$ and that c (the second of time in relation with the circumference of earth in meter) is defined by the duration of earth orbiting sun.

If the „meter“ of space would is defined proportional to the circumference of planet earth, then it would be

$$\mu_0 = \pi$$

$$\varepsilon_0 = (\pi \cdot c^2)^{-1}$$

9. Understanding the definition of „time“ in Base-SI-Units

A "frequency" [Hertz] should not be used to define a time-flow in terms of a straight line from A to B (as suggested by Einstein with SRT in 1905). Within the definition used by the Bureau International des Poids et Mesures the definition of time in $[1/T]$ [Hertz] the „1“ is not a „number“ without meaning. As the unit Hz refers to „one“ circle, it is of „unit“ $[\pi]$, that represents a relation between space and time itself.

The equation $12\pi c^3 = 1$ describes a geometrical derived definition (Solar System) for time that includes the „unit“ of the dimension of „time“ (π) when using the concept of „frequency“ within a model (quantum-theory). With f_{Cs} , the unperturbed ground-state hyperfine transition frequency of the caesium 133 atom (definition for the „second“ of time in Base – SI -Units) and R_∞ the Rydberg-constant for infinite nuclear mass and speed of light

$$c_{CODATA} = 299792458 [m/s]$$

it is calculated with the ToE-framework

$$12\pi c^3 = 1 \Rightarrow c_{TOE} = 0,298233409 \dots 10^9 [m/s]$$

$$12\pi c^3 = 1 \Rightarrow 12c_e = \frac{1}{\pi c_t^2}$$

$$\frac{R_\infty \cdot 10^4 \cdot c_{CODATA}}{f_{Cs}} = \frac{10973731,568160 m^{-1}}{9192631770 s^{-1}} \cdot 10^4 \cdot c_{CODATA} = 11,999935 \cdot c_{TOE} [dimensionless]$$

There is another way to calculate the ratio between the Rydberg-Constant and the ground state hyperfine transition frequency of the caesium 133 atom. Let us assume that the sun is encircling the earth or the other way around (no matter). The imaginary „speed“ of the sun (light) then is calculated as the circumference of the imaginary orbit of the sun divided by the duration of one year in seconds:

$$c_{SUN} = \frac{2\pi \cdot r}{365 \cdot 24 \cdot 60 \cdot 60} [m/s]$$

with r =average distance between earth and sun=149 600 000 000 m

$$c_{SUN} = \frac{2\pi \cdot r}{365 \cdot 24 \cdot 60 \cdot 60} [m/s] \Rightarrow c_{SUN} = 298060794 \cdot \frac{1}{10^4}$$

$$\frac{R_{\infty}}{f_{Cs}} \cdot c_{CODATA} = 12,00689 \cdot c_{SUN} [dimensionless]$$

10. From fake news to news : from fiction to facts

If we just ignore to look at the papers with the numbers that are the result of the experiments we are doing, any process of reasoning will fail as we just ignore the facts in the beginning.

Yet today we just ignore to accept the facts that are written in bold letters on the papers with the results from the experiments we do. The actual wrong definition of time in Base-SI-Units is not a hypothesis or a guess (light to be a wave), but it is an invention of something very unphysical that was not there before and there is no evidence that something like a "frequency" as a plain „number without meaning“ is the explanation for our universe to exist, while it is obvious that it represents a serious mistake in human thinking that represents a broken DNA in the reproduction-code for human society.

While we wonder about the wave-particle dualism, this dualism is given because we want to observe particles with our theories while we invented time as a wave and introduced a plain meaningless number into the theory, to represent „life“ in our universe. In consequence one could come to the conclusion that one Alien invented human being to be „numbers“ in order to play a computer game (Matrix) with human being.

To use the equation "time = God" in this setting is useful, because the definition of "time" as a frequency of the Caesium-Atom is in fact defining some „God“ in the Base-Si-System to be the "ruler" over physics and the scientific world. It may go back to the time when scientists felt the need to get rid of the influence of wrong teaching of misleading churches and their political influence to become their own „masters of the universe“ and free humanity from the chains of dark ages of churches abusing the context of God in order to speak in the name of God to exploit society by a leading elite in politics or churches. On the other hand this turned out to even increase the problem and make it a global failing „Babylon System“, as now „science“ is abusing the concept of God to speak in the name of God (a plain number without meaning). In consequence human being is about to destroy planet earth in an attempt of using „money“ (a plain number) to measure healthiness of society, while money clearly will turn out to be useless in an attempt to „buy“ a new planet to live on in an intergalactic shopping mall.

The pressing problem of physics and science today can be summarized then : Millions of papers are written to offer something new (theory) that should work better than something (our actual model and theory of reality), that doesn't work at all. Using the same foundation of those theories (Quantum Theory, General Relativity) that doesn't work at all, it seems to be a waste of paper and resources and damaging the environment instead of applying

solutions to protect the environment (changing the measurement-system into measurements that fit with our observations)

It is suggested that first is must be consensus that the todays theories (general relativity and quantum theory) are fundamental wrong and second should be started an international scientific panel (IPCC), that work on a correct (new) theory that does not „advance“ on wrong theories and models, but will be able to offer solutions to prevent climate change.

B. Solution to the Problem of Time III

1. The Key to Matrix of Thought and „Button“ to switch off the Machines

Within this third chapter, the author explains in how to perform to decode the Matrix of thought and to get back into Paradise to save planet earth from burning in climate change and to prevent the final fall of the empire of “human being” into nothingness like the age of dinosaurs ended in nothingness.

2. Origin of the Matrix

The “Matrix” of “Thinking” which everyone somehow might “feel” to exist is – unfortunately – real: At today in fact we live in a computer-simulation that we designed with our own thinking and conditioning of our brains due to an educational system that suggest a world as a “clockwork” that I. Newton warned about and that was introduced with the theory of special relativity and the Planck’s constant. Einstein named this kind of Religion “Cosmic Religion” that reflects the narcissism of the science that claim physicist to be superior human compared to humans of any other Religion. Scientific proof for a “Matrix” at work as to be an Alien is given with the Fine-Structure-Constant: Our Universe is dominated by a “number” without any meaning. At least we think so while we are sleeping. Following it is given a broad idea on how the Matrix is functioning and who has invented it to play a game with us, how we could switch of the Matrix and how will look the world in 100 years then.

3. Who invented Matrix and who is (are) the player(s)

There are two player involved in the Matrix. The first player is the past, that is culture and science since 10.000 years of knowledge that we teach our children to bring into future to carry on evolution. It is the accumulated EGO of human knowledge written in books to remember and improve.

Every now and then a culture of knowledge fails and fade away if there are serious problem with that (Maya, Egypt , Dinosaurs). On the way since the Egypt there were done serious

mistakes recently (within the last 3000 years). We think about the world as there should be planets and the sun, solar system, a terrestrial globe, the speed of light c , that should be a limit, we think in GPS and artificial intelligence as well as big data. Unfortunately: this all is just a computer simulation someone is playing with us: with a plain Number our Ego is set to be our God, origin and guiding force of universe. But the original real world is very different.

The second player is the small child as well as the animal. The genetic code and reality “nature” in us. We are born as children, not yet able to think, but already with full power of “learning” and “playing” the game: “Decision-making” Then there is education (the player of the past) working on us.

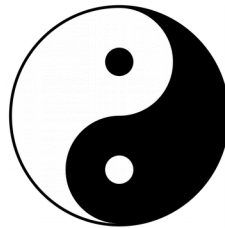
The adult education that get in action, the child needs care and protection, and the adult wants the child to learn the knowledge of the adult, that is finished with learning and wants to give this “genetic code” of knowledge in books, computer and databases into the knowledge of thinking in the rising child, while the child is in “slaveship” (depending on the adult that acts in the name of the Caesium-Atom).

One could say, if the unconditional growth of human society on earth and the destructive action is the cancer, that “knowledge of the past” about how to perform healthy in reproduction in books is the genetic code that can cause the cancer, while as each child born has biological healthy genetic code on reproduction (biological in cell). Somehow unconditional growth in society can happen by mistake if the code is broken (in knowledge) or unconditional growth can be causes in human body, if the genetic code of a biological cell gets ill.

There are two inventors now for the Matrix : Scientist in the past, that created wrong pictures of the world and the original functions of nature and the adult of today that invents the Matrix in every single child in this world, as they teach and “program” this wrong code into children to grow.

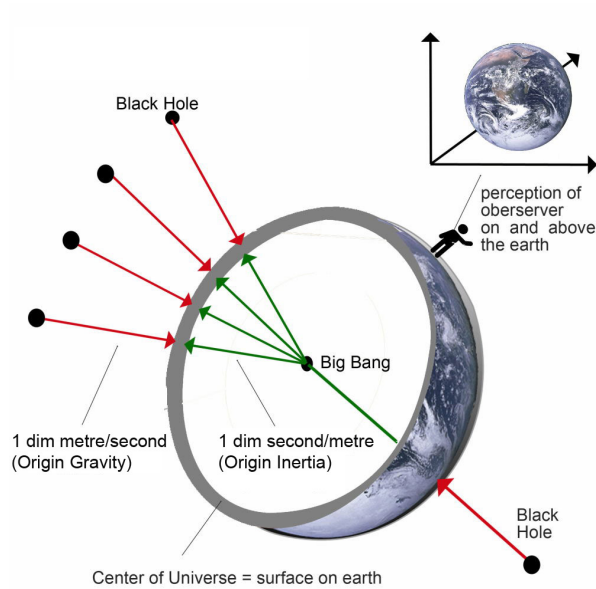
4. Summary of Reality

- **Gravitation an Inertia (Action ↔ Reaction)** is the base of the concept of “LOVE = GOD”, that is interaction of the soul representing the balance of powers between Thinking (Thought = Ego) and Feeling (Emotion = Body) within us. It is a real physical concept and the origin of space and material world we see. “Gravity” covers velocity meter / second as attraction (Gravity) and the inverse second / meter as to be “inertia”.
- The World is constructed from Black and White ($a/b = \pi$) but not of Bits and Bytes [0;1]



- The earth is center of the universe. To be precise: The surface of the earth is representing the 2-dim flat circle in on which each observer creates a 3-dim. Viewpoint of universe. As in the core physics time is the force on which all forces rely, the unified field force is m/s while in transformed in 3 dimensional observed space, it becomes the EM Force between positive and negative potential.
- The conservation of energy or information in universe is not possible, as reality is only a balancing out of forces of an incoming signal (GOD unified One) that is duty to us. The individual commandments of God can change, as our universe depends on “action” and “reaction”. There is a scientific “Frame-work” available to “include” God in our equations in order to get in contact with the universe in a more scientific way.

5. Unified Field on Earth (Flat Earth projection)



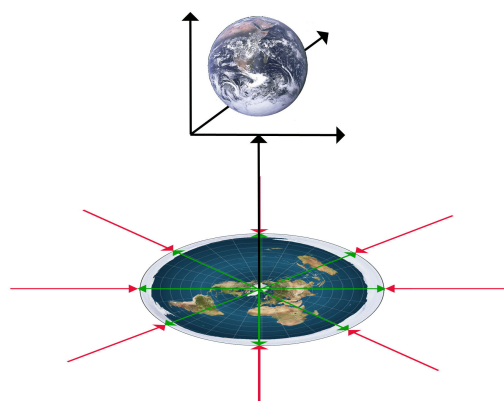
Picture 5.: Holographic Principle of human perception

$$E = m_{gravity}c^2 - m_{inertia}c^2 = 0$$

The only useful science is to set the surface of earth as center of universe (human being) then, although there is no “center” in general.

This concept of Gravity and Inertia (Energy of Universe = 0 ; Potential Energy of empty space = ∞) is in line with findings of other authors (Fisher 2007, Chung-Xuan 2016) [9],[10].

It is clear to see that even the “Flat-Earth-Community” is proven to be “right” with the ToE framework, as in fact their argument to base the perception on a flat surface of a circle is correct, considering that the origin of the unified force in ToE Framework is the electromagnetic field of earth in 2-dimension.



Picture 6.: Flat Earth World Model

6. If Matrix will be turned off: How will the future look like?

A digital machine (computer) is not able to balance the force of creation, as he can only calculate 0 and 1. The Balance of Powers (feeling) between (π) can't be calculated with computer or artificial intelligence, as in fact artificial intelligence turns out to be artificial stupidity. Human being as well as "analog" computers can calculate π .. In the long run all digital computers will fade away, as they are useless and creating problems.

Some perspective on life after switching off Matrix (i.E. 2060) :

- There will be no more digital machines / computer / handy / database, as it will be known as useless and will be forbidden. There will be allowed only analog computer.
- Population will go down to ca. 500.0000, as people will learn to live in peace
- All Religions will unite together into one, that is the ONE LOVE = GOD. All history and tradition (Christianity, Hindu and Islam) will fit into this. **Atheism is not allowed** by constitutions of nations.
- There will be a global carta for human rights **and duty** (believe in one God : Pi and planet earth as home) for every citizen on earth that every individual citizen of earth can claim at any court at any nation on this planet.
- Justice will be held on court with analog computing to offer a process free from ideology to "heal" / solve the problem, so prison is not necessary. There will be no "lawyers".
- It will be forbidden to own or store weapons of mass destruction
- There will be therapy / law available on how to treat problems between man and women in terms of sexual abuse and / or violence.
- There will be no more "money", as the global economy will work on a system of balancing sheets that make monetary system and banking systems useless.
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- ...
- ..

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