

What is time?

On the Construction of the World Formula

Summary and Experimental Proof

Manfred U. E. Pohl*

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Overview

In the previous works "Unified Principles of Nature: Solution to the Problem of Time",¹ "Solution to the Problem of Time II +III",² "Search for the World Formula",³ etc.⁴ A way was shown how a fundamental misconception in contemporary science can be uncovered by an investigation of the concept of "time" and how a world formula can still be constructed by correcting fundamental misconceptions and fallacies of Einstein and Planck. The main results of the author's work in recent years are to be summarized here and the world formula is to be formulated tentative - according to the current state of research.

* Correspondence: Manfred U. E. Pohl, Independent Researcher, Germany mue@villa2060.org

¹ Pohl M.U.E (2019): Unified Principles of Nature I, Scientific God Journal Vol 10 No3, <https://scigod.com/index.php/sgj/article/view/669>

² Pohl M.U.E (2020): Unified Principles of Nature II +III, Scientific God Journal Vol 11 No1, <https://scigod.com/index.php/sgj/article/view/718>

³ Pohl M.U.E (2022): Search for the World Formula, Scientific God Journal Vol 13 No1, <https://scigod.com/index.php/sgj/article/view/781>

⁴ Pohl M.U.E (2023): Unification of Electromagnetism and Gravity by correction of Einstein's ill defined speed of light <https://vixra.org/abs/2307.0141>

1 What is time ?

The term time is used for two different phenomena of perception. On the one hand, we use the term as a synonym for the principle of cause and effect or the principle of causality in general (yesterday = cause, tomorrow = effect), on the other hand, we use the concept of time in relation to "movements" or relative movements, in which no cause and effect can be differentiated. When two things are moving towards each other at an accelerated rate, we cannot say which of the two things is the cause of the acceleration.

A : Time_A as a principle of cause and effect

- Time_A = an "absolute" time independent of space (Newtonian time)
- Time_A = the combined driving force (cause of everything)
- Zeit_A = God
- Time_A = expression of free will
- Time_A = expression of infinity
- Time_A = expression of a living universe
- Time_A = Not measurable, not detectable in experiments
- Time_A = Only spiritual and can be experienced through feelings

Quantum theory has "proven" that this aspect of the concept of time (the principle of causality) is not measurable. Here it becomes clear that the assumption of a universally valid time as a principle of order is not amenable to measurement. However, quantum theory thrives on the assumption that universal time exists as a "measurable" phenomenon, which is not the case. This is the only reason why this theory appears to be "indeterministic".

B: Time_B as a derivative from the concept of relative motion

- Time_B = relativistic time, derived from relative motions
- Time_B = only measurable as angular measure (angular velocity)
- Time_B = no distinction between cause and effect

The concept of time, which is derived from relative movements, for everything measurable and demonstrably accessible to man in experiments, the material world. Insofar as this time can only be measured as an angular measure, this time is necessarily connected to space to form a space-time that represents our means of "measuring" space and time. Einstein's theories of relativity and the proof of their validity have been "proven" that this time forms the basis of our measurement technology

"Time" as a term refers to two fundamentally different aspects (dimensions) of our perception that must be treated separately.

2 What is Physics, What is Theology: Necessary Distinction for the Construction of the World Formula

In order to construct the world formula as a logical definition of space-time, it is necessary to strictly separate what man can prove and falsify in experiments, i.e. what is objectively accessible to man at all and what is only subjectively accessible, i.e. what can be experienced by the individual, but is not measurable. It is not possible to physically explain the feelings of another living being in the sense that they can be measured or predicted in experiments. Thus, in order to establish a "world formula", this aspect of time must be excluded from physics and must not be the subject of physical theories related to the materially experienceable, but must be the subject of discussion within the framework of theology.

Currently, however, absolute time is still defined and anchored as a physical dimension / quantity in physics, although Einstein actually showed that this time does not exist in the sense of measurable time.

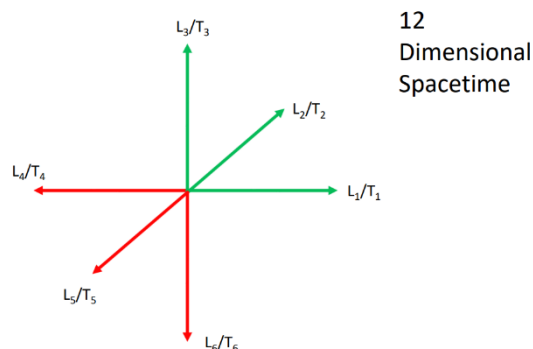
The definition of time on which our entire science edifice is currently based

$$T_{\text{absolut}} \quad f_{cs} = \text{constant} = \frac{9192631770}{1 \text{ s}} = \frac{1}{T} \quad (1)$$

is therefore to be rejected for the world formula and banished as an inadmissible physical dimension, because this aspect of time can only be experienced spiritually and reflects the nature and work of God (a living universe), which is only accessible to feeling. Unfortunately, this also shows that the entire Western culture has indulged in an illusion for centuries and with Galileo at the latest science has claimed the sovereignty of interpretation over God, although this claim must be called irrational and megalomaniacal.

3 What movement ?

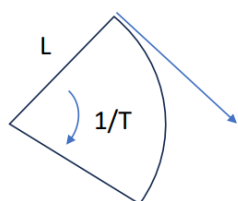
Although Einstein correctly recognized that there is no such thing as a general time as Newton assumed it, or that such a time is not definable, and with the postulate of the constant speed of light in a vacuum defines a "universe clock" that introduces a relativistic time instead of a universally valid time, Albert Einstein overlooked the fact that with the postulate speed of light = constant the dimensions length and time become interchangeable and "time" in principle (which is why the principle of causality no longer applies in quantum theory), but Albert Einstein defined this relativistic time only for one dimension and only in one direction. However, the space has three dimensions, each with two directions. So there are a total of 12 dimensions to consider. Einstein's fundamental mistake was that he assumed that one could characterize a velocity in the dimension of length / time. However, this is only true if one assumes a universally valid time or absolute



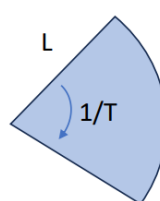
time, to which this concept of speed is supposed to refer. However, as shown, such a movement does not exist at all, so that relative motions can only be described in the dimension length²/time, because "time" is first measured by a motion (time / length) and then related to a third length, so that motion (relatively) can only be formally described as a three-dimensional phenomenon :

$$\text{Movement} = \text{Length A} \cdot \text{Length B} / \text{Time} \quad (2)$$

Newtonian Velocity = L/T



Relativistic Velocity = L²/T



So because velocities can only be given in the dimension L²/T, 12 dimensions in spacetime are needed, since a square cannot be formed with negative numbers. To put it more simply, the coordinate system must not have negative numbers, but must always be described with positive numerical values from the source.

Experimenteller Nachweis:

If one takes into account that, contrary to Einstein, the connection between space and time is not given by $L/T = \text{constant} = \text{speed of light}$, but by $L/T = 1/\pi$ and also that this connection is to be applied three-dimensionally ($T^3/L^3 = \text{constant} = \pi^3$) and not one-dimensionally, taking into account that the meter was originally (1793) defined as 1/400000000 of the Earth's circumference and the second as 1/86400 of the Earth's day

$$\pi^3 = \frac{\text{Erdumfang}^2}{2 \cdot \text{Lichtgeschwindigkeit}} \cdot \frac{1}{\text{Erdentag}} \quad (3)$$

$$\text{Lichtgeschwindigkeit} = \frac{\text{Erdumfang}^2}{2 \cdot \text{Erdentag}} \cdot \frac{1}{\pi^3} \quad (4)$$

$$\text{Lichtgeschwindigkeit} = \frac{40078091,23^2 \text{ m}^2}{2 \cdot 86400 \text{ s}} \cdot \frac{1}{\pi^3} = 299792458 \frac{\text{m}^2}{\text{s}} \quad (5)$$

The relative deviation between the circumference of the Earth, calculated here from the speed of light, and the mean circumference of the Earth at the equator of 40075017m (WGS 84) given in the literature, is $7.6706 \cdot 10^{-5}$. The deviation is thus in the range of the relative uncertainty of the gravitational constant in the third power and thus in the expected value range. Thus, it was shown that the speed of light in a vacuum is neither constant nor a constant of nature.

4 The World Formula : 12 Dimensional Space-Time

The world formula was originally formulated in 2019 as

$$12 \pi c^3 = 1 \quad (6)$$

Taking into account the fact that the number of circles in one-dimensional space has the dimension $T/L = \pi$, but in three-dimensional space the dimension $T^3/L^3 = \pi$, this formula can be used in the dimension analysis (L = length as distance; T = time as angle) can be written as

$$12 \cdot \frac{T_1 T_2 T_3}{L_1 L_2 L_3} \cdot \frac{L_4 L_5 L_6}{T_4 T_5 T_6} = 1 \quad (7)$$

and is to be understood as the definition of three-dimensional space as the mathematical "stage" of world events, as we can measure it at any point in time, but without being able to draw conclusions about the past or future from it.

Experimental proof:

$$12 \pi \left(\frac{10^{-5}}{12} \frac{c \cdot R_\infty}{f_{Cs}} \right)^3 = 1 \quad (8)$$

$$12 \pi \left(\frac{10^{-5}}{12} \frac{299792458 \cdot 1,0973731568162E+07 \text{ m} \cdot \text{m}^{-1}}{9,1926317700000E+09 \text{ s} \cdot \text{s}^{-1}} \right)^3 = 0,99998364.. \quad (9)$$

(error $1,635 \cdot 10^{-5}$ within uncertainty of gravitational constant)

- c = Speed of light in Vacuum (Dimension L/T)
Definition of Length in Base SI Units; not measured
- R_∞ = Rydbergconstant for infinite mass
Dimension $1/L$, most precise natural constant measured in physics
- F_{Cs} = Hyperfine Frequency of Caesium 133
Dimension $1/T$; Definition of Time in Base SI Units; not measured

5 Illustrative Unification of Quantum Theory and General Relativity

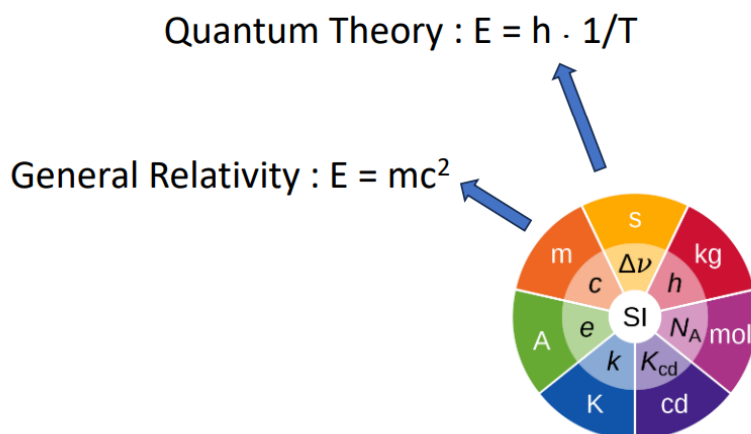
In view of the fact that in our measurement system, the 7 basic quantities in physics, "time" has been defined twice, with each definition being wrong in itself, resulting in two worldviews, both of which are inaccurate and could not be reconciled. First, time over the constant speed of light is defined as a relative magnitude

$$T_{\text{relativ}} \quad c_{\text{Vakuum}} = \text{constant} = \frac{L}{T}$$

and once again as an absolute measure

$$T_{\text{absolut}} \quad f_{CS} = \text{constant} = \frac{1}{T}$$

Via the assumption or the law of conservation of energy, this then leads to the theory of relativity, in which $L/T = \text{constant}$ applies to the conservation of energy, and to the Quantum Theory in which $L^2/T^2 = \text{constant}$.



However, the correct definition of time must be

$$T_{12D} \quad \frac{T}{L} = \text{constant} = \pi$$

6 Discussion and Conclusion

As a result, the "world formula" in the sense of the correct definition of "time" eliminates all natural constants and all physical quantities, and the only physical qualities (measured variables) are length in space (as a straight line between two points A and B) and time (as an angular measure between three points in space A, B and C). As the only "natural constant" in the sense of a "number", the circle number remains π , since with the application of complete general relativity and the renunciation of a reference to God in the system of units, all measured quantities are always relative and cannot have a fixed (absolute) value.

However, the number of dimensions (12) remains the same, because on closer inspection, the currently used size system with 7 natural constants and base units includes 12 dimensions, namely:

T^2 : Two dimensions of time concerning the concept of acceleration

L^3 : Three dimensions of space concerning three-dimensional space

M^2 : Two dimensions of mass concerning the attraction of mass (law of gravitation)

I^2 : Two Dimensions of Amperage Related to Charge Attraction

In addition, there is the candela, the mole and the temperature Kelvin, each in one dimension.

In total, the size system already consists of 12 dimensions.

However, the world formula reveals that the ampere, the kilogram, the mole, the candela and the kelvin can be abolished and energy (joules) can ultimately be described as an 11-dimensional (L^6/T^5) (non-symmetrical) quantity and the power (watts) as 12-dimensional (L^6/T^6) (symmetrical quantity).

Much more important, however, are the social implications of the realization that science (as in retrospect does not occur for the first time in the history of mankind) has fundamentally erred with regard to our knowledge of nature and against the background of this new insight the conclusion is required that it was not life that originated in the universe, but that the universe must have arisen from life.