

The Causal Unity of the Categories Meter, Kilogram, Second and Ampere and its Relation to Human Seeing

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Abstract

It is shown that the analysis of the equation, which describes the identity of the phenomenon time, given by the effect of the pendulum (PE) and the effect of the third law of Kepler (3LK) results in the observation of the causal unity of the categories meter, kilogram, second and ampere, the categories of the classical system of units. Based on these experimentally confirmed findings, it is shown that the differentiation of the numerically expressed fundamental categories refers to the effect of the factor temperature, which in cumulate form is represented by the weather, modified by space, time and distance. Furthermore, it is shown that these findings refer to the process of human seeing. Finally, it is pointed out that the free decision of the human enables the moral valuation of the personal activities.

Keywords: Physical Unities; Causality; Time; Seeing; Temperature; Free Decision

Abbreviations: PE: Pendulum Effect; 3LK: Third Law of Kepler; MKSA: Meter, Kilogram, Second, Ampere.

Introduction

In the paper "The Human Speech and the Human Music" it was documented by experimental data [1] that the communication between humans is based on the processing of the acoustic signals in the human ears. This model refers to the observation of Pythagoras, who has shown that the background of this effect appears to be the human feeling effect [1].

Starting from this observation, it has been shown by the analysis of the units meter, kilogram, second and ampere that these units reveal to form a causal unity together, resulting in the possibility of meta-physical effects, which appear in the processing of the sound. Hence, in the following, experimental findings will be described, which show that the categories *meter*, *kilogram*, *second and ampere are not* – *as postulated* – *independent unities* but represent a single fundamental causal unit. To verify this important assertion, it must be taken into account that the definition of the category ampere refers to the so-called mechanical units, i.e. to the categories meter, kilogram and second. Thus, it is allowed to concentrate the analyses on these three categories to demonstrate the existence of the single causal unit.

The Existence of a Single Causal Unity

In paper Dorda G [2], it was shown that the description of the phenomenon time is based on the experimentally observed identity of the time of the effect of the pendulum (PE) and of the time of the third law of Kepler (3LK). The comprehensive analysis of the experimental finding, ascribed by equation (4) in Dorda G [2], has shown that the existence of the special number a_0 , given by the equations (5)–(7) represents the causal connection between the PE and the 3LK. Moreover, the equation (4) in Dorda G [2] represents also the by the PE experimentally observed causality between the category length R_0 and the square of the category time

 t_{3LK}^2 , formally given by $g = R_0 / t_{3LK}^2$. The detailed analysis of equation (4) in Dorda G [2] has furthermore shown a fixed causal relation between the category length R_0 and the category mass M_0 , represented by the equation

 $R_0 = a_0 \frac{L}{M} M_0$, where the constant $\frac{L}{M} = \frac{G}{c^2} = 7.42565(74) \cdot 10^{-28} \text{ m kg}^{-1}$ is an experimentally

determined value, given by the gravitational constant $G = 6.67384(80) \cdot 10^{-11} \text{ m}^3 \text{kg}^{-1} \text{s}^{-2}$. Moreover, the equation (4) in Dorda G [2] reveals the causal connection between the category length R_0 and the limiting time of the PE t_{PE} , describable by the equation $R_0 = c t_{\text{PE}}$, with c being the speed of light.

Finally, it should be pointed out that the observed identity of the time of the PE with the time of the 3LK is only given, when the constant g_0 of the PE yields the value $g_0 = \pi^2 = 9.8696044$, i.e. the square of the mathematical value π of the orbit. It is known that the number π is the *transforming* number between the category length and the category time. Consequently, applying this *transformation*-effect on the PE and on the equation (4) in Dorda G [2], the constant g_0 must be given by the square of π , i.e. $g_0 = \pi^2$.

Based on the free chosen value of the speed of light, given by $c = 2.99792458 \cdot 10^8 \text{ m s}^{-1}$ as well as on the experimentally

observed co

constant $\frac{L}{M} = 7.42565(74) \cdot 10^{-28} \text{ m kg}^{-1}$, and

considering all the present causality related findings, the following numerical results are obtained:

- For the category length: $R_0 = 6.37100(74) \cdot 10^6$ m;
- For the category mass: $M_0 = 6.00260(34) \cdot 10^{24}$ kg;
- For the category square of time: $t_{3LK}^2 = 6.45518(01) \cdot 10^5 \text{ s}^2$;
- For the constant connection between the PE and the $3LK: a_0 = 1.429333(44) \cdot 10^9$.

Thus, it can be stated that the shown numerical values R_0 , M_0 , t_{3LK}^2 and a_0 represent the basis of the *single*, *fundamental causally connected unity of the experimentally observed real being*.

The Temperature Factor

It is evident that the finding about the existence of the single causal unity appears to be the basis for the observation of the meter-kilogram-second-ampere related differences. Seen in the connection with the in Dorda G [1] described effects of the ears, the effects of the eyes should be analyzed as well. This analysis shows that the by the eyes detected differences should be assigned to the factor temperature, in localized form to the weather, which is modified by mass, time and distance (the length). This finding suggests that the single human appears to be the real background of the discussed causal unity. Evidently, this model is supported by the fact of the nearly constant temperature of humans, independent on time, epoch and race. This model shows that the communicator between humans is not only the sound [1], but also the by the eyes given possibility of the differentiation of the single causal unity by the temperature.

In addition, it should also be beard in mind the human ability of free decision between positive or negative activities valuated to be altruistic or egoistic [1].

Conclusion

It has been shown that the description of the essence of time by the experimental data of the effect of the pendulum and the third law of Kepler yields the possibility to describe the unities meter, kilogram, second, ampere (MKSA) by a single causal unity. The analysis of this fundamental observation resulted in the assumption that the background of the by the human eyes noticed variability of the causal unities seems to be the factor of temperature. Based on this model, it has been pointed out that beside the human ability to analyze the signals of the ears and eyes, the great importance of the human free deciding between activities, having a positive, i.e. altruistic, or negative, i.e. egoistic, character [1] has been emphasized.

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