

Consciousness as a Research Tool into Space and Time

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Abstract: Current scientific experience of time and space is rational. Time and space are experienced through the mathematical models created by the mind. Human consciousness has the capacity to watch the mind functions and to become aware of how mathematical models influence experience. This awareness leads to conscious experience of time and space and opens new perspectives into the understanding of time, space and gravitation.

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1. Introduction

Introduction In current scientific experience time and space are first perceived by the eyes, then elaborated by the rational mind, finally experience occurs (1).

perception (eyes) - elaboration (mind) - experience

In the process of elaboration the mind describes space and time with different mathematical models. For example in the Special Theory of Relativity time and space are described by Einstein-Minkowski space-time. One experiences them through this model, one does not experience space and time as perceived by the eyes. Mind's elaboration creates an "information gap" between perception and experience.

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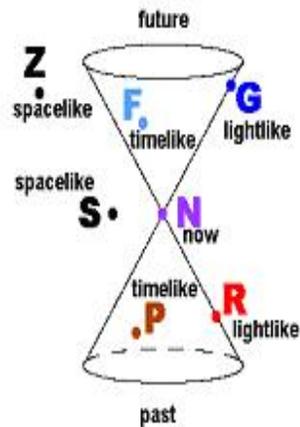


Fig. 1 Einstein-Minkowski space-time

Today space-time is considered as a physical reality, the model of reality has become more real than reality itself.

Human consciousness has the capacity to watch the way mind functions. Watching it one becomes aware that space-time is only a mathematical model and not physical reality itself. By having conscious experience one experiences space and time as they have been perceived by the eyes. The "information gap" that exists in rational experience is gone.

One can imagine the mind as an optical prism. The prism is bending the light ray, the mind elaboration is bending the authentic information.

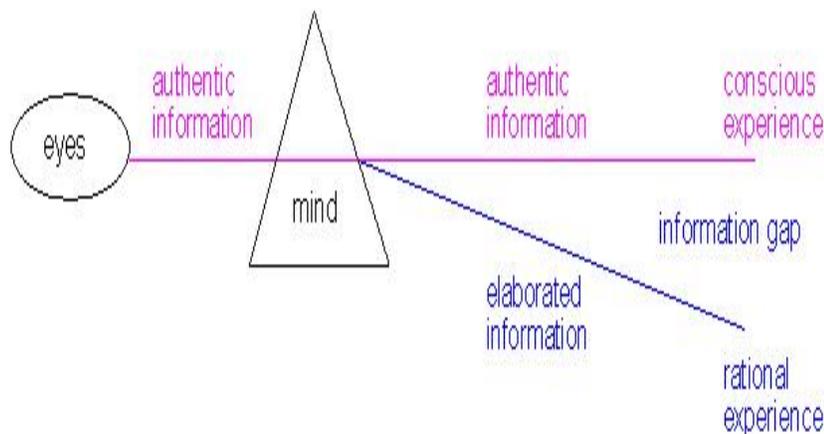


Fig. 2

In rational experience one experiences the world through the prism of the mind. In conscious experience one experiences the world authentic as it reaches the eyes (2).

One can imagine the eyes as a digital camera which registers the world. The information of the world registered by a camera is authentic. One can imagine mind as software that elaborates authentic information. Mathematical models of time and space are consistent parts of the software. When the observer does not know how to use consciousness as a research tool he will remain unaware of the software, he will not distinguish between physical time (authentic time) and mathematical time, his experience of the world will be rational. When the observer knows how to use consciousness as a research tool he will be aware of how software elaborates authentic information. His experience of the world will be conscious. He is aware of the difference between physical time and mathematical time.

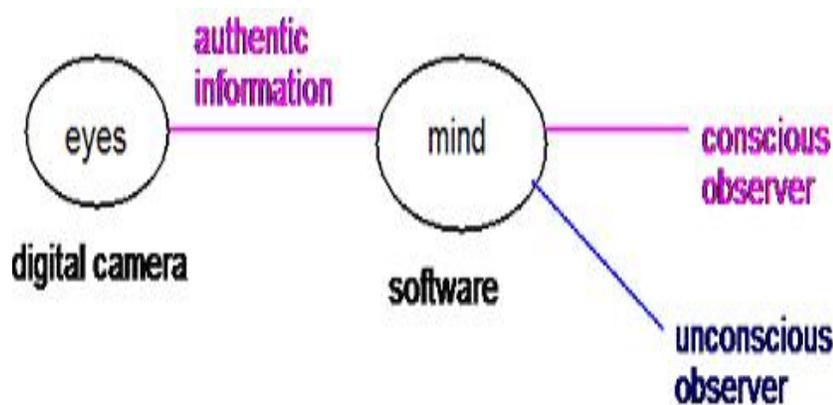


Fig. 3

2. Materials And Methods

Put a pendulum in front of you and observe it. You perceive pendulum moving in space only, about your experience that the pendulum is moving also in time there is no experimental evidence.

How is possible that you experience the movement of the pendulum in time without perceiving it ? Let's analyse the rational experience. The movement of pendulum that you observe is irreversible, movement A transforms into movement B, B transforms into C and so on. When B is in existence A does not exist anymore, when C is in existence B does not exist anymore. You experience the irreversible movement of the pendulum through the model of space-time, so you experience movements A, B and C as past, present and future. The movement of the pendulum has no duration. The sensation of "time running" enters during the elaboration where space-time is a mental form through which the movement of the pendulum is experienced.

3. Discussion

By having conscious experience one experiences authentic time and space as perceived by the eyes: physical time exists only as an irreversible stream of physical change in physical space (physical space is considered as a space in which material objects exist). Physical time has no duration. We give it the sense of duration by comparing them with the clocks. A clock is a mechanism with a constant speed, all physical change that we measure are compared with the speed of clocks. Physical time exist only as a stream of irreversible change that runs in A-Temporal physical space. Physical time is irreversible, it has no duration in the universe there is no past, no present and no future. They exist only in the mathematical models of time and space that are created by the mind. Physical time has no direction, it runs in A-Temporal physical space. "The arrow of time" exists only in mathematical models and not in the universe itself. The universe is an A-Temporal phenomena (3).

When Euclid was creating his geometry he was simply following the fact that for describing the position of a material object relative to another material object in physical space three coordinates are needed. If for describing the position of an material object four coordinates would be needed Euclid would have developed four dimensional geometry. It is important to understand that Euclidian geometry describes positions between material objects in physical space only and does not describe physical space itself.

In rational experience we experience physical space through three dimensional Euclidian space. There is no experimental evidence that physical space itself has three dimensions. It can be described with different geometries: Euclidian geometry, Minkowsky geometry, Riemann geometry.

4. Consciousness as a Research Tool

The mind capacity to distinguish between models and the world itself is limited. In current science mathematical models of time and space are more real than reality itself. To distinguish clearly between models of the world and the world one can use consciousness as a "research tool". Consciousness see clearly the difference between the model of the world and the world itself. It can be of an immense help in creating scientific models of the world that will be the closest to reality. It opens new perspectives into the understanding of time, space, electromagnetism and gravitation.

Electromagnetic forces are carried by electromagnetic waves. Maxwell equations are an adequate mathematical description of electromagnetic waves. Scientific model of gravitational waves that should carry gravitational force has been developed out of the model of electromagnetic waves. Hypothetical gravitational waves has not been discovered yet. The idea that gravitational force could be carried by the waves that are similar to elec-

tromagnetic waves could be wrong. "Consciousness as a research tool" proposes that gravitational force is carried directly by the a-temporal physical space in which electromagnetic waves are spreading (4, 5).

Loinger considers that gravitational waves do not exist: "It can be demonstrated that no motion of masses can generate gravitational waves. Accordingly: *emphi* the time decrease of the orbital period of the famous binary PSR1913+16 cannot yield an experimental proof of the emission of gravitational waves; *emphii* measurements of the propagation of the quasar J0842+1835 radio-signals past Jupiter cannot reveal the propagation of gravitational waves sent forth by the planet in its motion around the Sun: indeed, this motion does not generate any gravitational radiation; *emphiii* the binary RX J0806.3+1527 has the shortest known revolution period (only 321 s): however, it cannot be a candidate for the detection of gravitational waves because no kind of motion of a mass can give origin to a gravitational wave" (6).

5. Conclusions

Scientific knowledge is relative, theories of the world are improving continuously. Consciousness can be of a great help in this process.

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