

The Dynamics of Time and Timelessness: Philosophy, Physics and Prospects for our Life

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Abstract

Abstract. We point out that physical behavior is directed by the action principle (or Hamilton principle), while biological behavior is governed by the Bauer-principle which is directed against the action principle. Therefore, the ontological structure of reality have to be at least two-levelled. Consequently, we may escape from the paradoxes of endo-physics, since they arise from putting the observer into a physical context and compressing the ontological structure of reality into a one-levelled surface. We indicate that the concept of the Universe as-a-whole leads to the concept of a timelessness Universe. The internal time of the timelessness Universe is related to the three archi, the first principles of physical matter, living matter and conscious matter. We explore the existence of an ultimate time in which the timelessness evolve, what is related to the timelessness of logic and point out how the dynamics of finiteness and infinity is related to the ultimate realities of our lives. An interesting connection is found to the von Neumann's critical number of the elements for self-reproducible systems, the number of neurons in the human brain and self-consciousness. The need for an integral cosmology is emphasized which should include the Bauer-principle. The origin of the first principles of physics, biology and consciousness may be found in the logical principles. In that case material reality governed by the first principles may originate from the primordial logical reality. This result discover the existence of a Pythagorean Gap between the ontological principles and the realm of logic and may confirm the idea of Pythagoras that material reality originates from numbers.

Keywords: ontology, physics, biology, consciousness, first principles, logic

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