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Introduction to an Ontology of Time Structure and Models

The Metaphysics of New Physics

What is TIME?

TIME is a being.

The ontology of TIME is a new branch of metaphysics, which conceives of TIME as a being that is as a fundamental, real, and unique infinity. And it can be unique as it is non-spatial and inextensive.

The concept of the unique infinity is the solution to the aporias of the dual nature of infinity, or the synthesis of the concepts of infinitely large and infinitely small/infinitesimal.

Unique infinity is TIME; it is non-spatial and also independent of its parts: space and matter.

Unique infinite reality or unique physical reality or simply physical reality is at the same time both the basis and the whole of the universe. Natural laws are only attributes of this unique infinity, which generates through internal division (through Plato's monads or *diereses*) all finite phenomena creating what we call space and matter.

The *diereses*, that is internal self-division of infinity, is the effect of the main property of TIME (that is infinity) – continuity. And just that property of TIME, the continuity, is the most general and basic natural law. Thus we assume that TIME is the fundamental impetus of the whole world of phenomena and that the power of infinity is identical with the power of TIME. Moreover, what we call TIME is actually a mathematical principle of change, which constantly creates physical world but that solely in the present.

If change is only the mathematics of events, what then is motion? Motion is synchronising uneven parts of infinity according to magnitude, a necessary effect of the conservation of the general continuity of being that is the continuity of TIME.

Ontology in itself is pre-mathematical reasoning and, therefore, it is more precise than mathematics. The ontology of mathematics has roots in general metaphysics, as all the properties of being are basically mathematical.

The research of Russian temporologists (especially those of N.A. Kozyrev and the group at Lomonosov University around A.P. Levich) shows that it is quite