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The Submission Title: Mathematical conjecture on the relationship between matter, energy, time and space in the macro and micro universes

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Mathematical conjecture on the relationship between matter, energy, time and space in the macro and micro universes

Abstract

Constructing mathematical conjecture about the interrelationships between matter, energy, time, and space in the macroscopic and microscopic universes.

Keywords: Universe, Material, Energy, Time, Space, Mathematical Conjecture

The core of the conjecture: In the macro universe and the micro universe, the dynamic relationship between the four elements of matter, energy, time and space exists in mathematical logic, and the interaction and transformation between the four elements of the macro universe and the micro universe has unified mathematical laws and models.

The reasoning basis of conjecture: It is known that the macro universe is composed of four elements and evolves dynamically. There are four elements in the atom and the existence of four elements of the atom is interacting and dynamic relationship. We speculate that there is a commonality between the two: under different scales, the four elements together form the macro and micro mathematical dynamic models and systems of the unified universe, and the changes of this dynamic mathematical model and any element in the system will cause changes in the other three elements through fixed mathematical laws and connections. For example, when the matter in the macroscopic universe is stable, the time, space and energy in the macroscopic universe show a mathematical relationship and law. When the mass inside the atoms in the microscopic universe is stable, the time, space and energy of particles' motion show a mathematical relationship and law. Therefore, we can analyze the mathematical connection between the macro universe and the micro universe and the mathematical theory and system of the macro universe and the micro universe, and we can build new mathematical theories and systems that unify the macro and micro universe.

Extension of conjecture: If new mathematical theories and systems of unified macroscopic and microscopic universes can be established, then the physical

experiments and observation data of the macroscopic universe and the physical experiments and observation data of the microscopic universes can be incorporated into a unified physics analysis framework. Through the study of the mathematical connection between the four elements of the microcosm and macrocosm, we can break through the limitations of current physics in the cognition of cosmic matter and new mathematical theories and systems can provide mathematical logical support for the construction of a unified cosmic theory.

References

None