

Momentum in the Special Relativity with Variable Speed of Light

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About the Study

In this article, we will further search for the correct collocation of mass, energy, and momentum based on the special theory of relativity where the speed of light changes and the determination of the step function relationship between mass and velocity. Moving mass at different stages of kinetic properties or at different physical environments. You get three types of ontology collocations. Taking into account the basic fact that the lower the energy, the more stable the real world is, with a variety of light elementary particles from astrophysical subjects such as white dwarfs, red giants, and cosmic velocities of celestial bodies. It extends to heavy elementary particles, combinations, and performance. All of that qualitative knowledge can be derived from "ontology collocation".

Two of these three types of collocations are derived from the step function relationship of mass velocity, which depends on the quantum properties, so not all quantum phenomena in modern physics disappear. It is hoped that the modern physical knowledge accumulated in the laboratory and various theories scattered around will be explained under the control of classical theory. This article also derived the transformational relationship between the three types of collocation inertial systems S and S' of moving mass: mass, energy, and momentum. We derive the law of upgrade and downgrade of the entire special theory of relativity. This also greatly expands the way we understand modern physics from the theory of relativity. In traditional special relativity, there is only one type of 4D vector formed from energy and momentum. This is because in the special theory of relativity where the speed of light changes, there are no two independent and coexisting functional relationships between mass and velocity. A mass that moves due to its own acceleration or entry into and out of a medium or in a gravitational field can

realistically give two numbers, large and small, at the same velocity, but at the same velocity its energy is real.

There are three numbers, large, medium, and small and small values can be as small as negative values. Therefore, when energy and momentum are realistically combined into energy momentum four dimensional vectors suitable for mutual conversion between any two coordinate systems, there are three different types of collocations. On this basis, the conversion relationship between the three types of collocation types of mass, energy and momentum of the moving mass body in the inertial system is further derived, and the upgrade and downgrade law of the complete special relativity system is obtained. It has greatly enriched the basic account of how the mass, energy, and momentum of the moving mass body in the real physical world can ontologically be matched existence and transformed.

Conclusion

Based on the special theory of relativity with variable speed of light (i.e. the general relativity in the special form), deduces and demonstrates the authentic existence of momentum and energy of a moving mass body in the three "ontology" collocation types, they all are matched to form a four-dimensional vector in a four-dimensional space.

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