

The volume field model about strong interaction and weak interaction

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For a long time, researchers have believed that strong interaction and weak interaction are realized by exchanging intermediate particles. This article proposes a new mechanism as follows: Volume field is a form of material existence in plane space, it takes volume-changing motion in the form of non-continuous motion (or pulsation), volume fields have strong interaction or weak interaction between them by overlapping their volume fields. Based on these concepts, this article further proposes a bag model of volume field for atomic nucleus, it includes three sub-models: (1) The complex structure model of fundamental body (such as quark) which is further composed of fundamental particle (mass and electricity) and fundamental volume field (flavor and color), (2) The atom-like structure model of hadron which is further composed of hadronic nucleus (consisting of particle-like quarks) and extranuclear quarks (a kind of volume-field-like quark), and (3) The molecule-like structure model of atomic nucleus. This article also proposes a plane space model, periodic jump function model, a physics model of volume field in plane space, as well as a model of space-time conversion. The model of space-time conversion suggests that: Point space-time and plane space-time convert each other by means of merging and rupture respectively, the essence of space-time conversion is the mutual transformations of matter and energy respectively; the process of collision of high energy hadrons (from point space to plane space then to point space), the formation of black hole (from point space to plane space), and the Big Bang of universe (from plane space to point space) are three different kinds of space-time conversions.

Biography

Rongwu Liu had worked as a Physics Teacher for more than 20 years before he came to USA. He was graduated from Qufu Normal University, China, majoring in Physics. He has attended a lot of academic meetings in China and America since 1997. He worked in LG Intermediate School, Rizhao, China for more than 20 years before he came to USA in 2007.

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