

Abstract Submitted
for the FWS16 Meeting of
The American Physical Society

The model of complex structure of atomic nucleus RONGWU LIU¹,
No Company Provided — Physicists believe that physical world consists of ordinary matter and dark matter, the ordinary matter is composed of quarks, electrons and neutrinos ultimately, and the dark matter is composed of dark matter particles that physicists are looking for presently. This lecture proposes that: matter exists not only in the form of particle but also in the form of volume field; particle is a form of material existence in point space, it takes displacement motion in the form of continuous motion, particles have interaction between them by exchanging intermediate particles; volume field is a form of material existence in plane space, it takes volume-changing motion (or volume motion) in the form of non-continuous motion (or pulsation), volume fields have interaction between them by overlapping their volume fields. According to “the combination principal of the least intensity of fundamental body”, this lecture predicts the existence of dark matter particle; according to the absoluteness of volume motion of volume field, this lecture predicts the existence of volume-field-like quark and volume-field-like neutrino. Based on these concepts, I further propose the model of atom-like structure of hadron and the model of molecule-like structure of atomic nucleus. In the end of this lecture, I will discuss the essences of color field force, nuclear force, the collision of high-energy hadrons, black hole, the universe before big bang, and dark matter.

¹I graduated from department of physics of Qufu Normal University, China, had been a physics teacher before coming into USA in 2007.

Rongwu Liu
No Company Provided

Date submitted: 01 Sep 2016

Electronic form version 1.4