

2nd European Nuclear Physics Conference

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New Results in Particle and Nuclear Physics

Abstract :

There are only two fundamental particles – virtual electron and positron, no properties; there exists ether generating mesons and neutrons; cosmic rays are its proper radiation which enabled evaluation of parameters of ether; mean radius of electron is about 0.01fm; neutron and H-atom are linear systems with distributed and lumped parameters, consistent with ether spatially and in time, respectively; H-atom is not real atom but its embryo; H-atom is organic system of three subsystems, quarks, described by real symmetric matrices; excited by photons, atoms and neutrons respond with neutrinos; essence of nuclear interaction is conservation of energy by alternate transformation of electric energy to magnetic one and vice versa, atom of deuterium (D-atom) its fundamental case; processes of H-atom and neutron can roughly be modeled by electric RC- and LR-circuits; D-atom is modeled by LCR-resonator, while He-atom by T-shape filter; nuclear structure evolves by nuclear shells, D-atom being its basic element; there are seven shells: He-shell (2-shell), octahedral shell (8-shell), icosahedral shell (18-shell), double-icosahedral shell (36-shell) + three respective inverse shells of 18, 8 and 2 D-atoms; remaining neutrons perform inter-shell interaction; electron shells are integral components of nuclear structure; any atom can be represented by respective matrix of impedances; atoms are different models of ether, U-atom being most perfect. See more online: www.reformscience.org.

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Comments :

This is an abstract of my 30-year-long independent research that I started late in the 60s in Russia and since