

Wave, formal-mathematical and corpuscular description of the world

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Abstract

The contents of the article is mirrored in its title.

In science the fact is well-known, that often opposite notions about that or diverse phenomenon result in identical end results, that produces bitter controversies of the opponents. The example can be served by century dispute between the supporters of the wave and corpuscular nature of light, dispute between a system of Ptolemy and Copernicus and many other conflictings in the most miscellaneous areas of science.

The wave description of physical phenomena cannot be executed without of elastic medium (ether) in which one there is a wave process and is diffused by means of this elastic medium. Therefore description of wave phenomena in a solid, liquid and gas adequately mirrors the test datas and problems here does not arise. There, where the elastic medium misses, it is necessary to invent miscellaneous ruses to distribute the wave description and to these objects: empty world space (world ether in the miscellaneous fancy forms), internal space of atoms (wave functions of probability), fields (short-range interaction of fields by means of transfer of a disturbance from one point to other), electromagnetic radiation of the Maxwell (simultaneous oscillation magnetic and electrical field in an elastic medium). The wave description of world is fine is designed, since above it many generations of the known scientists worked, but main brake here it is necessary to have in stock an elastic medium. There, where it no or there are doubts in its existence, a field for critics there is opened.

In the formal-mathematical description of the world the elastic medium is not necessary any more. Record a wave equation and decide it for the diversified cases. Though in mathematical relation such description of the world perfectly, but the physical sense of mathematical manipulations is lost. Specially it notably in a quantum mechanics. As a consequence, the similar description it is easy to subject a severe critic. To be salvaged from of intrusive critics, it is necessary to invent completely fancy notions about a microcosmos, which one do not have conformity in a macroworld. Thus, the unity of the world is upset, that directly contradicts fundamental laws of universe. The absence of physical sense is the main unremovable brake of the formal-mathematical description of the world.

The corpuscular description of the world, basically, is a merit of Newton. Because of small number of the supporters of such description «have defeated» wave notions. The main brake for of corpuscular world was established by Newton, by formulating the law even and rectilinear motion of free bodies. This law has become force majeure for explanation of an interference, polarization and some other properties of light. Attempts to mate the wave description with corpuscular (wave-corpuscle dualism of microparticles [1]) are originally doomed on a fall because of a principled difference between a wave and particle. The ether is not necessary for the corpuscular description of the world in any to the form, therefore photon, for example, billions of years not «being spread» can move in space, that is impossible from the point of view of the wave description of its motion. The main lack of the corpuscular description of the world consists in incompleteness of official toolkit for such description. Only new corpuscular quantum physics has entered notion about originating of a gravodynamic field at motion of gravitational charges and bound with this fact by screw motion of free bodies. It has allowed to revise many fundamental rules of classic physics and quantum mechanics and to realise a capability of the corpuscular description of the world to the full. Unfortunately, it has taken place after in heads of the scientists strongly was fixed paradigm, designed Einstein and fathers of a quantum mechanics. This paradigm had time knock home in heads of millions students and even of the homemakers. In outcome new scientific paradigm on the basis of new physics meets aggressive hostility. It, certainly, temporary phenomenon and the victory new paradigm in science is foregone, as was already repeatedly. It is a pity, that this the temporary interval, usually, exceeds temporary existence of the person in the land of the living, and orthodoxes permanently self-reproduction by conservative science.

References:

- 1 <http://www.new-physics.narod.ru>