The Physical Interpretation of the Quantum Mechanics

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Abstract. In this work the wave-only view of physical interpretation of the quantum mechanics is provided. The role of the quantum physics is estimated in interpretation of QM. Because point particle never reveals itself *in reality*, wave is considered an elementary quantum object.

The most exact fundamental physical theories describing reality at the quantum level were developed and experimentally verified in the 20th century. The main of these theories is the quantum mechanics (QM). The mathematical description of QM is equitable only in processes of Schrödinger continuous evolution, and works only when we do not measure. The quantum physics, actually, describes process of measurement and complements the quantum mechanics which does not contain the description of measurement process. In this work the wave-only view at interpretation of the quantum mechanics is offered. Wave function is a matter at the fundamental quantum level. The complexity of the quantum system or that it is elementary as it is proposed in this work is defined by a number of arbitrary points of physical space. For the processes described by the wave equations with time and measurement, the new classification which comes from the concept of quantum evolution is offered. The principled view takes place in case of infinite in size wave packets, but by definition is never implemented.