



Quantum Physics: So Odd? So Absurd?

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Abstract

The author attempts to answer the questions in the title of this paper. First of all, a short but complete historical review of the transition between Classical Mechanics and Quantum Mechanics there is, preceded by some of the methodological premises that fit a certain vision of science. Then the author examines the issues and debates that have occurred on aspects of quantum mechanics such as non-locality and probabilism. The absurdities and conflicts with the common sense of quantum mechanics are shown to be largely apparent. In doing this, we examine the analogies of classical physics, as well as those of everyday life. Recent experimental results are taken into consideration. It is concluded that Quantum Mechanics presents elements of rupture more with Classical Physics than with the everyday experience.

Keywords: quantum physics, interpretation of physics, physics models, probabilism, realism