

# Is it Time for a New Paradigm in Physics?

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**Abstract.** The fact that the two main pillars of modern physics are incompatible with each other; the fact that some unsolved problems are accumulated in physics; and, in particular, the fact that physics is invaded with weird concepts (as if we were in the middle ages); are quite sufficient to confirm the need for a new paradigm in physics. But the conclusion that a new paradigm is needed is not sufficient, without an answer to the question: is there sufficient material to construct a new paradigm in physics (?). I consider that the answer to this question, is also: Yes. Today physics has sufficient material of experimental facts, theoretical achievements, and also has human and technological potential. So, there is the need and opportunity for a new paradigm in physics. The core of the new paradigm of physics would be the nature of matter. According to this new paradigm, physics should give up on the wave-particle dualism, should redefine the wave, should cancel the mystery about light and its privilege in physics. The others would be consequences. These consequences would make physics more understandable, and what's more important, would make it capable for solving the current problems and for opening up new perspectives in exploring the nature and universe.

**Keywords:** Paradigm in physics, Nature of matter, Quantum mechanics, Relativity.