Quantum Physics

Quantum Mechanics and Nonlocality: In Search of Instructive Description

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A problem with an instructive description of measurement process for sufficiently separated entangled quantum systems is well known. More precise and crafty experiments together with new technological challenges raise questions about sufficiency of formal use of "black-box" Copenhagen paradigm without subtleties of transition between quantum and classical worlds. In this work are discussed applications both standard interpretation of quantum mechanics and "unconventional" models, like relative state formulation, multiple clocks formalism, and extended probabilities.

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