

# EPR Paradox and the Physical Meaning of an Experiment in Quantum Mechanics

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## Abstract

It is shown that there is one purely deterministic outcome when measurement is made on the state function chosen by EPR to describe the combined two-particle system - the distance between the two particles is preserved the same. Further, it is shown that, surprisingly, the psi-function designed according to QM leads to the following paradox - despite the fact that the two particles move in opposite directions, in time the distance between them becomes shorter and shorter.

**Subjects:** [Specific Sciences: Physics: Quantum Mechanics](#)

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