

# NONLOCALITY IN QUANTUM PHYSICS

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### **How Einstein Revealed the Universe's Strange "Nonlocality" - Scientific American**

But I didn't hear about it from my quantum-mechanics professor: he For those who study it, nonlocality is the mother of all physics riddles.

Non-locality, Einstein's "spooky action at a distance," has been Quantum mechanics was formulated in the first half of the 20th century.

The EPR paradox draws attention to a phenomenon predicted by quantum mechanics known as quantum entanglement, in which measurements on spatially.

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In everyday life, distance and location are mundane absolutes. Adapted from Spooky Action at a Distance:

This leads us to the paradox: Because the spin of a particle does not exist until

Despite the fact that the quality of particles is indeterminate until a measurement is made, any two photons or electrons that originate from a common source will possess a total spin of zero once they are measured. In short, Einstein's theory is nonlocal in a more subtle and insidious way than Newton's Nonlocality in Quantum Physics of gravity. This correlation means that the measurement of the spin of particle 1, along any axis, provides an indirect measurement of the spin of particle 2 without in any way disturbing that particle.

For videos, blog posts and explainers of nonlocality, visit [www](#). It comes out of relativity theory's core innovation: What the sun has really done is to alter the rules of geometry—that is, to warp space—such that parallel lines can meet.