

Local Realism Versus the Quantum of Doubt

Andrew P. Yake

Local realism is essentially the premise that physical reality is already physically real and that causal influence propagates through spacetime in a mechanistic way like a chain of toppling dominoes. However, local realism has been replaced by quantum theory as the scientific model of physical reality. Causal signal propagation under quantum theory is like starting with an arbitrarily long chain of dominoes, then removing all the dominoes in the middle and claiming that the first can topple the last instantly anyways -- just because we don't have any better ideas. The argument for replacing local realism with quantum theory requires that the Bell inequality is an accurate description of the predictions of local realism in an EPR experiment. However, many researchers conclude otherwise. Strangely, this substantial countersignal seems to promote fierce defensiveness rather than rational doubt among quantum believers. One begins to worry that the ongoing rejection of local realism is predicated upon motivated beliefs rather than upon motivated inquiry. Keywords: Local Realism. Local real dominoes. Quantum Dominoes. EPR. Bell inequality. Causal signal propagation.

In any case, a concise paper posed as a local realistic puzzle representing an EPR experiment now claims to show that local realism explains Bell violations & thus plausibly all physical reality. The necessary logical flaw in the Bell inequality is claimed exposed in two paragraphs!

See viXra:1704.0078 - Local Realism Explains Bell Violations (author Andrew P. Yake):

8 pages complete with figures, equations, a graph of testable predictions, and 32 references.

Thoughtful feedback appreciated (apyake@gmail.com).