

Range of Violations of Bell's Inequality by Entangled Photon Pairs

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Abstract

If the quantum states of measured pairs are entangled, then there are triplets of experimental configurations for which Bell's original inequality is violated. This paper gives a concise characterization of the entire range of possible triplets of polarization measurements on entangled photon pairs for which the inequality is violated.

Keywords: quantum entanglement, Bell's inequality, nonlocality

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