

Probabilistic Teleportation of a Three-Particle State

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Abstract: A scheme for teleporting a three-particle state is proposed when three pairs of entangled particles are used as quantum channels. Quantum teleportation can be successfully realized with a certain probability if the receiver adopts an appropriate unitary-reduction strategy. The probability of successful teleportation is determined by the smaller coefficients of the three entangled pairs.

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Key words: teleportation, three-particle state, three pairs of entangled particles, unitary reduction

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