Canonical Quantum Teleportation of Two-Particle Arbitrary State

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(Received: 2005-2-1; Revised:)

Abstract: The canonical quantum teleportation of two-particle arbitrary state is realized by means of phase operator and number operator. The maximally entangled eigenstates between the difference of phase operators and the sum of number operators are considered as the quantum channels. In contrast to the standard quantum teleportation, the different unitary local operation of canonical teleportation can be simplified by a general expression.

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