Scheme for Deterministic Quantum Teleportation of an Arbitrary Two-Particle State via Two EPR Pairs in Cavity QED

SHI Shi-Wei, YANG Qun, and YI You-Min

Key Laboratory of Opto-electronic Information Acquisition and Manipulation of Ministry of Education, School of Physics and Material Science, Anhui University, Hefei 230039, China
(Received: 2005-10-27; Revised: 2006-1-13)

Abstract: A deterministic teleportation scheme for an arbitrary two-particle state is proposed in cavity QED. The success probability can reach 1.0. In addition, the scheme is insensitive to both the cavity decay and the thermal field.

[Full text: PDF]

Close