

Robust Scheme for Long-Distance Teleportation of an Unknown Atomic State

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(Received: 2005-7-28; Revised:)

Abstract: A scheme is presented for the long-distance teleportation of an unknown atomic state between two separated cavities. The scheme is based on the Raman coupling and cavity decay. In the scheme, the effective atom-cavity coupling strength is much smaller than the cavity decay rate and thus cavities of high quality factor are unnecessary.

PACS: 03.67.-a, 42.50.Dv

Key words: teleportation, atomic state, Raman coupling

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