

A Scheme for Teleportation of an Unknown Entangled Coherent State via Raman Interaction

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Abstract: A scheme is reported for the teleportation of entangled coherent states through the degenerate Raman interaction. The scheme uses an entangled state of an atom and two coherent states as a quantum channel. It makes full use of coherent cavity fields. Furthermore, it does not need any classical field to transform the atom states.

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Key words: Raman interaction, teleportation, entangled coherent state

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