

Teleportation of a Three-Particle State via Entanglement Swapping

FANG Jian-Xing, LING Yin-Sheng, ZHU Shi-Qun, and CHEN Xian-Feng

School of Physical Science and Technology, Suzhou University, Suzhou 215006, China
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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 channel. After a sender operates the Bell-state measurement, the original state with deterministic probability can be reconstructed when the receiver performs a corresponding measurement with unitary transformation.

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Key words: teleportation, three-particle state, entanglement swapping, unitary transformation

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