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Teleportation of an Arbitrary Three-Particle State via Three EPR Pairs

FANG Jian-Xing, ZHU Shi-Qun, CHEN Xian-Feng, and ZHANG Rong

School of Physical Science and Technology, Suzhou University, Suzhou 215006, China
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Abstract: A scheme of teleportation of an arbitrary three-particle state is presented when three pairs of entangled particles are used as quantum channels. After the Bell state measurements are operated by the sender, the original state with deterministic probability can be reconstructed by the receiver when a corresponding unitary transformation is followed.

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Key words: teleportation, arbitrary three-particle state, three-entangled particle pairs, unitary transformation

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