Quantum Physics

Criterion for faithful teleportation with an arbitrary multiparticle channel

Chi-Yee Cheung, Zhan-Jun Zhang

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We consider quantum teleportation when the given entanglement channel is an arbitrary multiparticle state. A general criterion is presented, which allows one to judge if the channel can be used to teleport faithfully an arbitrary quantum state of a given dimension. The general protocol proposed here is much easier to implement experimentally than the others found in the literature.

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