## **Quantum Physics**

# Criterion for faithful teleportation with an arbitrary multiparticle channel

Chi-Yee Cheung, Zhan-Jun Zhang

(Submitted on 19 Jan 2009)

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.

Comments: 5 pages, no figure

Subjects: Quantum Physics (quant-ph)
Cite as: arXiv:0901.2784v1 [quant-ph]

## **Submission history**

From: Chi-Yee Cheung [view email] [v1] Mon, 19 Jan 2009 08:54:24 GMT (7kb)

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