

Classification of the Entangled States $2 \times M \times N$

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(Submitted on 31 Dec 2009)

We extend the matrix decomposition method(MDM) in classifying the $2 \times N \times N$ truly entangled states to $2 \times M \times N$ system under the condition of stochastic local operations and classical communication(SLOCC). It is found that the MDM is quite practical and convenient in operation for the asymmetrical tripartite states, and an explicit example of the classification $2 \times 6 \times 7$ quantum system is presented.

Comments: 17 pages, 1 figure

Subjects: **Quantum Physics (quant-ph)**; High Energy Physics - Phenomenology (hep-ph)

Cite as: [arXiv:1001.0078v1](#) [quant-ph]

Submission history

From: Junli Li [[view email](#)]

[v1] Thu, 31 Dec 2009 03:32:08 GMT (34kb)

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