

Role of Covariance Correlation Tensor in Establishment of Criterion of Quantum Entanglement

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Abstract: This article discusses the role of covariance correlation tensor in the establishment of the criterion of quantum entanglement. It gives a simple example to show the powerfulness in the treatment of quantum dense coding , and illustrates the fact that this method also provides theoretical basis for establishing corresponding knotted pictures.

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Key words: quantum entanglement, covariance correlation tensor, quantum dense coding, knotted picture

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