

Matrix Tensor Product Approach to the Equivalence of Multipartite States under Local Unitary Transformations

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Abstract: The equivalence of multipartite quantum mixed states under local unitary transformations is studied. A criterion for the equivalence of non-degenerate mixed multipartite quantum states under local unitary transformations is presented.

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Key words: local unitary transformation, multipartite quantum mixed state, tensor decomposable

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