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## Separability Criteria for Quantum Mixed States

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Abstract: We investigate separability of mixed states in bipartite and multipartite quantum systems. If a quantum state in a bipartite system of arbitrary dimension (or in \$2\times2\times N\$ quantum systems) is separable, we show that some quantity in relation to Hermitian matrix is positive.

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Key words: separability, density matrix, quantum mixed state

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