

## Transfer of two qubits states using coupled cavities in off-resonance systems

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### Resumo

In this work we studied a system consisting of a pair of two-level trapped ions in coupled optics cavities, where we analyze the transfer of states of two qubits from the degrees of freedom (of movement and of internal states) of one ion to another. This system was studied near the blue side band frequency with a small gap. With analytical results obtained was possible to calculate the fidelity of transfer of entangled qubits.