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Affiliation: Chapman University

Roman Buniy

Degrees of Entanglement of Dicke States of Qubits

Abstract

We have calculated the bounds $\mu_{n,m}$ of the expected values of the Mermin operators for Dicke states $\v_{n,m}$. These are symmetric states of \n qubits among which \m qubits are in one possible state and $\n-m$ qubits are in the other possible state. We show that m and \n,\m or \m qubits are in the other possible state. We show that \m are in one possible state and $\n-m$ qubits are in the other possible state. We show that \m are in one possible state. We show that \m are in the other possible state. We show that \m and $\n-m$ and \m possible state. We show that \m where \m and \m possible state. We show that \m where \m and \m and \m possible state. We show that \m where \m and \m possible state. We show that \m and \m possible state. We show that \m and \m possible state. We show that \m possible state. We show that