Endrejat, Jochen (D-BAYR-T1); Büttner, Helmut (D-BAYR-T1)

Characterization of entanglement of more than two qubits with Bell inequalities and global entanglement. (English summary)


81P15

It is shown that, for three- and four-qubit states, the different degrees of genuine multipartite entanglement can be effectively measured by optimized operators like those appearing in Mermin and Klyachko’s Bell inequalities. These measures of entanglement are applied to discriminate between two possible two-qubit entanglements and higher entanglements, and compared with a global measure of entanglement.

Reviewed by Adán Cabello

© Copyright American Mathematical Society 2005