CORR 2001-04

quantum Networks for Concentrating Entanglement

Phillip Kaye & Michele Mosca

Abstract  If two parties, Alice and Bob, share some number, $n$, of partially entangled pairs of qubits, then it is possible for them to concentrate these pairs into some smaller number of maximally entangled states. We present a simplified version of the algorithm for such entanglement concentration, and we describe efficient networks for implementing these operations.