

Colloquium

Quantum Entanglement from Theory to Experiment

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時 間：111 年 4 月 13 日(三) 14 : 00

地 點：應用數學系多媒體教室(理 408 室)

摘 要：

Gauging the distance between a mixed state and its nearest separable state is important but challenging in the quantum mechanical system. We, in this talk, propose a dynamical system approach to quantify entangled bipartite systems, which has several advantages, including (1) A gradient dynamics in the complex space can be described in a fairly concise way; (2) The global convergence from any starting point to a local solution is guaranteed; (3) The requirement that the combination coefficients of pure states must be a probability distribution can be ensured; (4) The rank can be dynamically adjusted. The theory, algorithms, and some numerical experiments will be presented in this talk.

