

國立中山大學應用數學系

學術演講

講者：林敏雄教授（成功大學）

講題：Optimization Algorithms for Quantifying Entanglement

時間：2022/11/08（Tuesday）16:10 ~ 17:00

地點：理 SC4009-0 教室

茶會：15:30

Abstract

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.

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