

中国科学院数学与系统科学研究院

量子论与信息论

学术报告

报告题目: **Nonlocality of Orthogonal Product State Sets and Entanglement-assisted Discrimination**

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摘 要: Since Bennett et al. put forward the phenomenon of "non-localization without entanglement" in 1999, the nonlocality of orthogonal quantum state sets has been widely concerned. As the concepts of strong nonlocality and genuine activating nonlocality have been proposed, a large number of related results have been obtained. In this talk, I will present the constructions of two nonlocal sets and discuss the relation with entanglement resource. I will briefly discuss some of our recent work on the nonlocality of orthogonal quantum states.