

Quantum Information Theory



Speaker: Min-Hsiu Hsieh 謝明修

Associate Professor in UTS

Professional: Quantum information theory and quantum computation, especially the quantum coding theory and quantum Shannon theory; quantum entanglement; quantum machine learning; quantum cryptography.

Date:

2015/11/2 (Monday) 13:20-16:20 &

2015/11/3 (Tuesday) 09:00-11:50

Engineering Building 4 Room 824 , NCTU

Organizer : NCTU Institute of Communications Engineering

Contact us : yihuan.lin717@gmail.com

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Course Objectives:

This short course is intended to prepare the audience for the basic tools developed for handling some of the most fundamental problems in quantum information theory. We will answer the following questions in this short course: what is the asymptotically optimal rate of compressing of a quantum source, what is the asymptotically optimal rate of transmitting classical information through a quantum channel and what is the asymptotically optimal rate of transmitting private information through a quantum channel.