Quantum Information Group Sharif University of Technology

Presenter: Mostafa Taheri

Title: Alberti-Uhlmann Conditions

Abstract:

Any dynamical or measurement process on a quantum system is described by a completely positive trace-preserving map or a quantum channel for short. In 1980 Alberti and Uhlamn found a condition for the existence of a quantum channel that simultaneously transforms an input-pair of states into an output-pair. Since then this problem and its generalizations have been extensively investigated from different points of view. Nevertheless, the question of whether or not a quantum channel can transform a pair into another if we allow it to act in different discrete or continuous time steps has not been addressed so far. I will be speaking about this problem and the progress I have made in my research.

Place: https://vc.sharif.edu/ch/sraeisi

Date: Khordad 25 1400

You can add this seminar to your google calendar by this <u>link</u>.