

Minimax strategy in quantum hypothesis testing

Kentaro Kato

Dept. of Electrical Engineering, National Tsing Hua University

Quantum hypothesis testing is one of fundamental theory of quantum information. In this talk we treat the minimax strategy in quantum hypothesis testing. As a first step, the necessary and sufficient conditions on the quantum minimax strategy for the finite number of decisions will be shown. To illustrate validity of the necessary and sufficient conditions for the minimax strategy some concrete examples will be shown.