

# **On some recent results about quantum XOR games**

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## 1. Abstract

In this talk we will introduce quantum XOR games as a non-commutative version of classical XOR games. We will explain some examples, which show that these games exhibit properties of entanglement that cannot be observed in the classical case. We will also explain the connection between quantum XOR games and the problem of distinguishability of quantum states, which motivates the study of these games when the players are allowed to interchange classical communication as part of their strategies.