

Poker over the phone, and its extensions

Imre Bárány

Alfréd Rényi Institute of Mathematics

Abstract

How to play poker over the phone? Any two players can talk privately but there are no playing cards. The first difficulty they encounter is how to deal the cards using communications only. I will explain how this can be done in such a way that does not give any extra information to any one of the players. The method can be used to show that, for $n > 3$, every correlated equilibrium of a n -person game coincides with a Nash equilibrium of a suitably extended game.