Title: Many-player entangled state solutions in game theory problems
Author: Sudhakar Yarlagadda
Affiliation: CAMCS and TCMP, Saha Institute of Nuclear Physics, Calcutta, India

ABSTRACT

We propose a non-classical multi-player entangled state which eliminates the need for communication, yet can solve problems (that require coordination) better than classical approaches. For the entangled state, we propose a condensed matter example of a correlated quantum Hall state. The proposed state will be shown to give better solutions for some classical stochastic problems where classical solutions are far from ideal.