

abstract

COMPUTER SCIENCE/DISCRETE MATH I

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

We prove strong lower bounds for Sherali-Adams relaxations of the MAX CUT, Vertex Cover and Sparsest Cut problems. Specifically, we show that the integrality gap of MAX CUT and Vertex Cover relaxations is $2 - \epsilon$ after n^δ rounds (where δ depends on ϵ); the integrality gap of Sparsest Cut is at least $C \max(\sqrt{\log n / (\log r + \log \log n)}, \log n / (r + \log \log n))$.

Joint work with Moses Charikar and Konstantin Makarychev.