

Approximating semidefinite packing problems

Date: November, 20

Time: 4pm

Location: 750 CEPSR

Abstract: In this paper we describe an algorithm to solve a class of semidefinite programs. The class we study includes SDPs that researchers have used to develop significantly improved algorithms for some difficult combinatorial optimization problems. In order to develop our algorithm, we investigate the connection between the structure of the semidefinite programs used to solve the combinatorial optimization problems, linear programs that have an analogous structure, and methods for solving nonsmooth convex optimization problems.

joint work with G. Iyengar and C. Stein