ABSTRACT:
Convex algebraic geometry is an emerging field at the interface of convex optimization and algebraic geometry. A primary focus lies on the geometric underpinnings of semi definite programming. This lecture offers a self-contained introduction. Starting with elementary questions concerning multifocal ellipses in the plane, we move on to discuss singularities and projections of spectrahedra, and new algorithms for real algebraic varieties.

MONDAY MAY 11TH 2009
4:30 PM
Building 4, Room 237

Refreshments at 4:00 PM in Building 2, Room 349
(Applied Math Common Room)