

Department of Mathematical Sciences
The Johns Hopkins University

SEMINAR

Jong-Shi Pang
Department of Mathematical Sciences
The Johns Hopkins University

March 6, 2003
304 Whitehead Hall
Refreshments: 3:30 p.m.
Seminar: 4:00 p.m.

COLLUSIVE GAME SOLUTIONS VIA CONVEX OPTIMIZATION

ABSTRACT

Nash equilibria have played an important role in economics and game theory. Most recently, this fundamental equilibrium concept has been used extensively in dealing with pricing issues in electricity power markets. In this talk, we present the concept of a collusive game strategy and discuss how collusive game solutions can be analyzed and computed using convex optimization.

[This is joint work with Joseph Harrington (Economics, JHU) and Benjamin Hobbs (Geography and Environmental Engineering, JHU), assisted by Andrew Liu (Mathematical Sciences, JHU).]