The Math Colloquium
Department of Mathematics
San José State University

Dashiell Fryer

Univ. of Illinois at Urbana-Champaign

General Incentives in Game Theory

April 27, 2011, MH320

Abstract: I will discuss a general framework for the notion of incentive in games with a finite number of agents and strategies. Included in this framework will be a protocol which agents will use to revise their strategies. This revision protocol will then be used to derive a family of differential equations that I will use to discuss issues of convergence to and stability of equilibrium points. The Nash equilibrium will be central in much of the analysis, but I will also describe other equilibrium that have many attributes found in human decision making that are lacking in the Nash equilibrium.

Background: This talk will be accessible to a wide audience. An elementary background in differential equations is expected. Prior knowledge of game theory is not necessary.

About the speaker: Dashiell Fryer is a graduate student at the University of Illinois at Urbana-Champaign. He completed a B.S. in Computer Science and a B.A. in Mathematics at SJSU in 2006. Dashiell will finish his Ph.D. in Mathematics in the Summer of 2011.

Snacks in MH331B at 2:30 pm
Talk starts at 3 pm

For more information, see our full schedule at:

http://www.math.sjsu.edu/∼hsu/colloq/