

## **abstract**

PRINCETON-RUTGERS-IAS JOINT ANALYSIS SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

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In a joint work with Bob Kohn, we give a new control-type interpretation on the level-set approach to motion by curvature and related interface motion laws. More precisely, we give a family of discrete-time, two-person games whose value functions converge in the continuous-time limit to the solution of the motion-by-curvature PDE. The value function of a deterministic control problem is normally a first-order Hamilton-Jacobi equation, while the level-set formulation of motion by curvature is a second-order parabolic equation.