

Qui-Dong Wang

Dynamics of rank one maps: Theory and application

Abstract: In this talk I intend to present a theory of strange attractors Lai-Sang Young and myself developed in the last a few years on certain maps with one direction of instability. This theory has been applied to a variety of periodically force differential equations to prove the existence of strange attractors with SRB measures in real physical systems. We will discuss both the theoretic development and applications.