

WICHITA STATE UNIVERSITY
Department of Mathematics and Statistics

*The Lecture Series in the
Mathematical Sciences Presents Our Guest:*

Dr. Katrin Gelfert

Max Planck Institut Für Physik Komplexer Systeme
Dresden, Germany

"Topological Pressure Via Saddle Periodic Points"

Abstract:

In this talk we show that dynamically defined quantities such as the topological pressure and the entropy are determined solely by periodic orbits with sufficiently strong hyperbolic behavior. Here we consider nonuniformly hyperbolic dynamical systems such as diffeomorphisms which preserve hyperbolic probability measures.

**Friday, October 7, 2005
3:00 PM in 372 Jabara Hall**

*Please come join us for refreshments before the lecture
at 2:30 p.m. in room 353 Jabara Hall.*