

WICHITA STATE UNIVERSITY  
Department of Mathematics and Statistics

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

Prof. Monica Moreno Rocha  
Tufts University, Boston, MA

*"Rational Maps and Sierpinski Gaskets"*

Abstract:

We will study a family of rational maps acting on the Riemann sphere with a single preperiodic critical orbit. A generalization of the well-known Sierpinski gasket will provide a complete topological description of their Julia sets. In addition, a combinatorial algorithm will be introduced to characterize when two Julia sets are not homeomorphic.

Friday, November 19, 2004  
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.*