

WICHITA STATE UNIVERSITY  
Department of Mathematics and Statistics

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

Prof. Peng Lu

University of Oregon, Eugene, OR

“Ricci flow and properties of its singularities”

Abstract:

Ricci flow is to evolve the Riemannian metric by its Ricci curvature. In certain coordinates, the equation looks like heat equations. In this talk we begin with some pictures and properties of Ricci flow which illustrates the similarities between the two equations, in particular the convergence of (normalized) Ricci flow when the initial metrics are nice. However unlike heat equation which exists long time, Ricci flow often exists for only a short time (i.e. develops singularities). We will discuss some tools and results of Hamilton and Perelman about analyzing these singularities.

Friday, October 21, 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.*