



Announcing

A Colloquium Presentation

October 9, 2008 at 2:30 pm

Southern Hall 303

at The University of Southern Mississippi

Speaker: Jiu Ding

Department of Mathematics
The University of Southern Mississippi

Title: An Application of elementary calculus to solving a conjecture on the minimum dimension of Sierpiński Pedal Triangles

Abstract:

Dr. Xin-min Zhang of the University of South Alabama constructed a class of fractals called Sierpiński Pedal Triangles, which generalizes the classic Sierpiński Triangle. The speaker once showed that the dimension, $\ln 3 / \ln 2$, of the Sierpiński Triangle is a local strict minimum of the dimensions of all Sierpiński Pedal Triangles, which lead to a conjecture that this number be the global minimum. Recently a graduate student of Fudan University in Shanghai, China and the speaker solved the conjecture and the resulting paper has been accepted by the journal *Fractals*. This talk is about the proof, which is a good example how to apply elementary calculus to solve mathematical problems.

Further Information

Refreshments are served from 2:15 pm until 2:30 pm in Southern Hall 303. Further details and information about this and other departmental activities is available online at http://www.math.usm.edu/bulletin_board/.