The Oliver Club

www.math.cornell.edu/~oliver/

Robert Strichartz, Cornell University

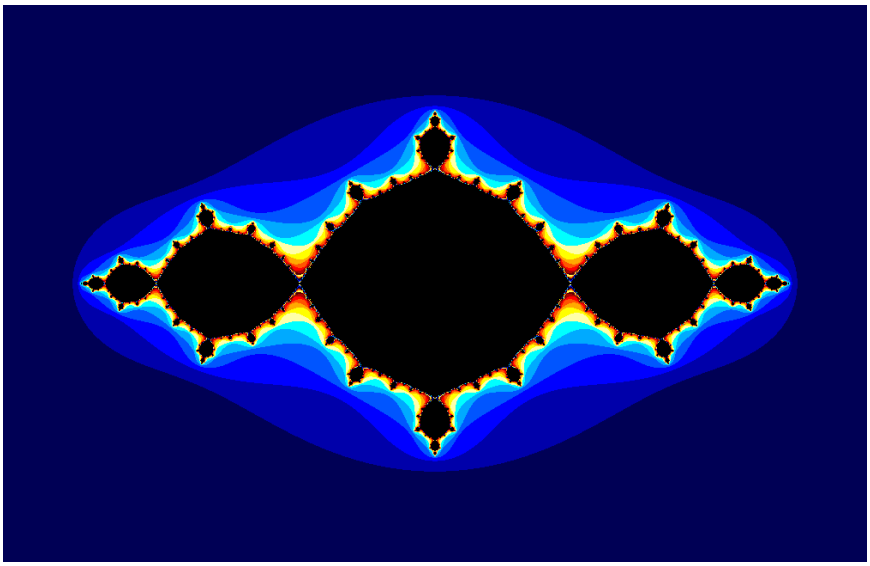
Amazing Secrets of Fractal Laplacians

The Laplacian is one of the most basic operators in analysis. Originally defined on regions in Euclidean space, there is now a well developed theory of Laplacians on Riemannian manifolds and graphs, and there have been definitions of Laplacians on certain fractals for more than 20 years.

The purpose of this talk is to convince you of two things:

(1) Laplacians on fractals have amazing properties that are quite unlike anything seen before.

(2) Thinking about Laplacians on fractals yields insights about ordinary Laplacians.



Thursday, September 15, 2011
at 4:00 PM in 532 Malott Hall

Refreshments will be served at 3:30 PM in the Mathematics Department lounge (532 Malott Hall).