

THE MATHEMATICS DEPARTMENT PRESENTS

A MATHEMATICS COLLOQUIUM

THURSDAY, April 10, 2008

BOND HALL 227

4:00 pm

Title: Fourier Series on the Sierpinski Gasket

Speaker: Kasso Okoudjou, University of Maryland, College Park

Abstract: In the first part of the talk, I will show how the self-similarity structure of the unit interval can be used to re-derive the theory of Fourier series on $I=[0, 1]$. Using this approach, I will introduce the Laplacian on the Sierpinski gasket and present the corresponding theory of Fourier series. This talk will be accessible to all.

Refreshments will precede the talk at 3:30pm in Bond Hall 300
courtesy of Árpád Bényi.