

Title: Harmonic Functions on the Sierpinski Gasket

Speaker: Andrea Arauza, UCR

Date: Wednesday, March 1

Time and Location: 1:00-2:00pm, 3-2643

Abstract:

The theory of analysis on fractals stemmed from the desire to study differential equations and Laplacians on fractals. We will review the classical definition of harmonic functions and some basic results from complex analysis. We then look at the construction of "harmonic" functions on the Sierpinski gasket and discover some results analogous to those known for the familiar harmonic functions of complex analysis.