Friday, May 25th 2007

At 2:00 PM in Room AAC 006

To be followed by discussion;

“Spectra of Schreier Graphs of Self-similar Groups”

Zoran Sunic
(Texas A&M)

Target audience: doctoral students, researchers and Professors in Mathematic.

Abstract:

We present a method of calculation of spectra associated to Schreier graphs of self-similar groups through several examples. Among the examples we treat the first Grigorchuk group, Hanoi Towers group (leading to spectra of Sierpinski graphs) and some newer examples. The method is based on introduction of higher-dimensionl rational maps and refines the approach Bartholdi and Grigorchuk applied to the first Grigorchuk group.