“Spectral functions: Techniques and applications”

Abstract:
Functions of the eigenvalue spectrum of certain, mostly geometric, differential operators play a crucial role in different branches of mathematics and physics. Prominent representatives of these so-called spectral functions are the zeta function and the heat kernel. Using different examples from mathematics and physics, I will explain where the interest in spectral functions comes from. New methods for their analysis will be outlined and applied to a variety of problems in topics such as the heat equation and quantum theory.

Friday, November 16, 2007
3:00 PM in 372 Jabara Hall

Please come join us for refreshments before the lecture
at 2:30 p.m. in room 353 Jabara Hall.