MINICOURSE

Tuesday, June 26th 2007
At 2:00 PM in Room AAC 006

To be followed by discussion;
“Zeta Functions of Weighted Graphs and Covering Graphs”

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

Abstract:

First we review the basic facts about Ihara zeta functions. Then we discuss two topics.

1) A condition on edge weights will be given that insures that the natural Ihara zeta function associated to a weighted graph has a 3-term determinant formula.

2) The distribution of poles of zeta functions of abelian graph coverings of a fixed small irregular graph will be compared with those for a random covering. This is joint work with H.Stark, M. Horton, and D. Newland.