MATHEMATICS DEPARTMENT
North Carolina State University

ALGEBRA SEMINAR

Friday, August 26, 2005

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Finite Groups, Kazhdan Constants and Expanding Graphs

ABSTRACT: Kazhdan constants describe representation-theoretic properties of some (topological) group, but they can also be used to examine the combinatorics of a group. We work to relate the expanding constant of a group’s Cayley graph to its Kazhdan constant, by looking at the connection between the regular representation of $G$ and the combinatorial Laplacian on $Cay(G, S)$ for an appropriately chosen generating set $S$.

3:00 - 3:50 pm   HA 335

Faculty and Students are invited to attend.