

Mathematics Colloquium

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**Some Analytic Methods
in Group Theory**

Abstract: We shall try to explain how analytic tools, involving spectral analysis, ergodic theory and probability on groups, combine together to yield purely algebraic properties of some interesting classes of groups. We shall also use the main result, which is entirely elementary in its statement, as a motivation to discuss some aspects of the fundamental notions of amenability and property (T), assuming no prior familiarity. The talk should be accessible to every graduate student.

Wednesday, March 22

**4:00-5:00 pm
204 Smith Hall**