

Institute for Mathematics and its Applications
2012 Seminar Series
University of Wollongong

Title: Lattices in exotic groups

Speaker: Anne Thomas (University of Sydney)

Time and Date: 3:30pm, Wednesday 18 April 2012

Location: Room 24.102

Abstract: A lattice in a locally compact group is a discrete subgroup of finite covolume. Lattices in Lie groups are well-studied, but little is known about lattices in other "exotic" locally compact groups. Examples of such exotic groups include automorphism groups of trees and higher-dimensional polygonal complexes, and Kac-Moody groups. We will survey some known results, which include both rigidity and surprising examples of flexibility, as well as discussing the wide range of tools used to investigate lattices in these non-classical settings.