

Department of Mathematics
University of Oklahoma

Topology Seminar
Wednesday, March 8, 2006
3:45 PM in PHSC 809

Title: *Dehn functions and the topology of manifolds*
Speaker: *Max Forester, University of Oklahoma*

Abstract:

I will describe a method for computing high dimensional Dehn functions of groups. These functions give the optimal “ n -dimensional isoperimetric inequality” that holds in any model for the group. That is, they measure the difficulty of filling n -dimensional spheres of a given volume with $(n + 1)$ -dimensional balls, inside a geometric model for the group. The method relies on basic topological properties of manifolds. This talk is related to the ones I gave earlier in the semester, but it should also make sense on its own.