Undergraduate Math Club
Winter 2006

2nd floor Nesbitt Common Room
March 16, 4:10-5:00pm
(free pizza and pop, as always)

Prof. John Lott Three-dimensional spaces

Abstract

Until recently, one of the oldest unsolved problems in topology was the Poincare conjecture, which concerns how to recognize a 3-dimesional sphere among a wider class of 3-dimensional spaces. A far-reaching generalization of this conjecture is Thurston's Geometrization Conjecture. Very recently, Perelman has announced a proof of Thurston's conjecture (and so the Poincare conjecture as a corollary). This talk will present a non-technical introduction to the recent work of Perelman.