Undergraduate Math Club
Fall 2005
2nd floor Nesbitt Common Room
Oct. 6, 4:10-5:00pm
(free pizza and pop, as always)

What are topological manifolds made of?

Professor J. Heinonen

Abstract

A topological manifold is a space that locally looks like a patch of Euclidean space. Globally one can encounter holes and handles and other complexities. I will explain some striking classical facts about topological manifolds, such as how they can be smoothened out in low dimensions, but not so in high dimensions.