



Mathematical Sciences Research Institute

“Curvature, Poincaré inequality, and the structure of complete manifolds.”

Monday, November 27, 2006

4:10pm

60 Evans Hall

University of California, Berkeley

Dr. Peter Li (University of California, Irvine)

This talk will describe some applications of using analytical methods to detect the number of connect components at infinity of a complete, non-compact manifold. A special case of these manifolds are manifolds with -1 curvature and of infinite volume. As a consequence, a theorem of Witten and Yau asserting the non-existence of wormholes in some physical model is recovered.

Refreshments at a nearby establishment immediately following the talk!

*The purpose of these lectures is to introduce the present year's research programs at MSRI to the mathematical sciences community in Berkeley. The talks will be **expository and nontechnical**, providing some of the flavor of ongoing research at MSRI.*

Graduate students and Postdoctoral Fellows are particularly invited to attend these lectures.

Further information and links to the MSRI program and workshop web pages are available at:

<http://www.msri.org>

