MSRI Mathematical Sciences Research Institute

MSRI/Evans Talk

Monday, October 22, 2007
4:10pm
60 Evans Hall
University of California, Berkeley

"The geometry of hyperbolic 3-manifolds"

Dr. Kenneth Bromberg
University of Utah

On a closed 3-manifold there can be at most one hyperbolic metric. However, an open 3-manifold can have many distinct hyperbolic structures. In this talk we will describe an elementary construction of large families of (almost) hyperbolic metrics on the product of a surface and the real numbers. We will also connect this construction to Thurston's Ending Lamination Conjecture and its recent proof by Brock-Canary-Minsky.

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