



GEOMETRY, TOPOLOGY, AND PHYSICS SEMINAR

Three-manifolds, Ricci flow, and physics, con.

Dave Morrison
UCSB

Friday, October 6, 2006, 3:30 p.m.
Room 6635 South Hall

Abstract: The topic of this quarter's seminar is Ricci flow on three-manifolds, with the goal of understanding

1. the basics of Thurston's geometrization program,
2. Hamilton's strategy for completing that program using Ricci flow,
3. Perelman's technical and conceptual advances in Ricci flow which allow the program to be completed, and
4. relations to physics including the analogy with the renormalization flow in two-dimensional quantum field theory.

This second talk will continue our general introduction to three-manifolds, Ricci flow, and physics.

Information about future meetings of this seminar can be found at
<http://www.math.ucsb.edu/~drm/GTPseminar/>