

SANTA BARBARA • SANTA CRUZ

GEOMETRY, TOPOLOGY, AND PHYSICS SEMINAR

Introduction to Ricci Flow with Surgery

Xianzhe Dai UCSB

Friday, December 1, 2006, 3:30 p.m. Room 6635 South Hall

Abstract: Ricci flow is a quasilinear, (weakly) parabolic, geometric evolution equation. Ricci flow with surgery continues the evolution beyond the finite time blowup singularities. This requires sufficiently fine understanding of the finite time blowup singularities. We will discuss Perelman's functionals, no local collapsing results, the ancient kappa solutions, the asymptotic solitons, the canonical neighborhoods, the standard solutions and surgery construction.

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