

Meeting: 1003, Atlanta, Georgia, KLEINER, AMS Invited Address

1003-53-18 **Bruce A. Kleiner***, University of Michigan, Department of Mathematics, 525 E University Avenue, Ann Arbor, MI 48109-1109. *Perelman's work on Ricci flow.*

Two years ago Perelman posted two preprints on the ArXiv which introduced new techniques for studying Hamilton's Ricci flow, and announced a solution to Thurston's geometrization conjecture (which implies the 3-dimensional Poincare conjecture). The lecture will discuss some of Perelman's ideas, and give an overview of his approach to Thurston's conjecture. The exposition will be accessible to a general mathematical audience. (Received April 15, 2004)