



Speaker: Curtis Pro
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Thursday, April 4, 2013
2:00 PM
258 Hurley Hall

Title: Stability, Finiteness and Dimension 4

Abstract:

Cheeger's Finiteness Theorem says the class of Riemannian manifolds subject to a particular set of geometric restrictions admits at most finitely many differentiable structures. Later, Grove, Petersen, and Wu weakened these restrictions and were able to reach the same conclusions for the larger class of manifolds, except in dimensions 3 and 4. Perelman's Stability Theorem extends this result to dimension 3. This talk outlines joint work with Fred Wilhelm (still in progress) on a new diffeomorphism stability result with the goal of answering the question in dimension 4.