

C. Pugh

Title:

Generic Riemann Structures

Abstract: Generically, how many geodesics of the same length connect two points of a Riemann manifold? Ivan Kupka, Mauricio Peixoto, and I answer this and related questions. We give a fairly sharp bound. Abraham's Bumpy Metric Theorem and its proof by Anosov play a role, as does our focal stability conjecture. Our methods are fairly geometric, and have a flavor of structural stability.