

The length of a shortest closed geodesic and the smallest area of a minimal surface

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Abstract

I will talk about various upper bounds for the length of a shortest closed geodesic and of a shortest stationary 1-cycle on a closed Riemannian manifold. In particular, I will talk about the curvature-free upper bounds.

I will also present curvature-free upper bounds for the smallest area of a minimal surface in a closed Riemannian manifold.

(Joint with A. Nabutovsky).