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Short geodesics on closed Riemannian manifolds

We will discuss various upper bounds for the length of periodic geodesics, geodesic loops and geodesic segments on closed Riemannian manifolds. In particular, I will talk about diameter upper bounds for the length of three shortest simple periodic geodesics on a Riemannian 2-sphere (joint with Y. Lioukumovich, A. Nabutovsky), and the recent result of N. Wu and Z. Zhu estimating the length of a shortest periodic geodesic on closed Riemannian manifolds with two-sided Ricci curvature bounds.