

Amenability and Growth of Closed Geodesics for Regular Covers

Wednesday, 7 December 2022 17:00 (50 minutes)

For compact negatively curved Riemannian manifolds, a classical object of study is the exponential growth rate of closed geodesics, which is the same as the exponential growth rate of volume in the universal cover, and also equal to the topological entropy of the geodesic flow. In this talk, we discuss the question of the growth rate of closed geodesics in noncompact regular covering manifolds and how this relates to the group of deck transformations. We give some historical context to this problem and discuss the perspectives in the dynamics community.

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