Schapira, Barbara; Tapie, Samuel
Narrow equidistribution and counting of closed geodesics on noncompact manifolds. (English) [Zbl 07476309]

Summary: We prove the equidistribution of (weighted) periodic orbits for the geodesic flow on noncompact negatively curved manifolds toward equilibrium states in the narrow topology, i.e. in the dual of bounded continuous functions. We deduce an exact asymptotic counting for periodic orbits (weighted or not), which was previously known only for geometrically finite manifolds.

MSC:
37A25 Ergodicity, mixing, rates of mixing
37A35 Entropy and other invariants, isomorphism, classification in ergodic theory
37D35 Thermodynamic formalism, variational principles, equilibrium states for dynamical systems
37D40 Dynamical systems of geometric origin and hyperbolicity (geodesic and horocycle flows, etc.)

Keywords:
negative curvature; geodesic flow; periodic orbits; equidistribution; Gibbs measure; counting

Full Text: DOI

References:
[9] S. Gouezel, B. Schapira, and S. Tapie, Strongly positively recurrent potentials in negative curvature, 2020. hal-02901142v2


This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.