

Symbolic dynamics for orbits with 0 Lyapunov exponents

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Content

We introduce a class of orbits which do not require hyperbolicity. That is, sensitivity to initial conditions may be strictly sub-exponential. We discuss symbolic dynamics of such orbits (namely countable Markov Partitions with a finite-to-one almost everywhere coding, and with summable variations for the C^1 distance of stable and unstable manifolds of chains). We discuss a class of examples where every invariant measure can be coded this way, including the Riemannian volume Vol, while Vol-a.e point has a 0 Lyapunov exponent.

Summary

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Session Classification : Workshop