

A STRONG CLOSING LEMMA IN NONUNIFORM HYPERBOLICITY

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ABSTRACT. We present a strong version of Katok' closing lemma in nonuniform hyperbolicity, which asserts that the Oseledec basin, Oseledec bundle splitting and Lyapunov exponents of a given ergodic hyperbolic measure can be approximated by hyperbolic periodic orbits, their Oseledec bundle splitting and their Lyapunov exponents, simultaneously.