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Vaughn Climenhaga* (climaha@math.uh.edu), **Daniel J. Thompson** and **Kenichiro Yamamoto**. *Large deviations and non-uniform specification properties.*

We establish a large deviations principle for symbolic systems satisfying a certain form of non-uniform hyperbolicity. Namely, there should be a collection of words (finite orbit segments) with the specification property, and this set of words should be asymptotically statistically dense in the language of the shift space. Then if m is a weak Gibbs measure relative to this collection of words, the system satisfies a large deviations principle with reference measure m . Prior work has shown that existence of such weak Gibbs measures can be guaranteed via an additional thermodynamic hypothesis. (Received February 11, 2013)