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On a spectral theorem and its application to Lipschitzian kernels. (Sur un théorème spectral et son application aux noyaux lipschitziens.) (French) [Zbl 0772.60049](#)

Proc. Am. Math. Soc. 118, No. 2, 627-634 (1993).

Summary: The aim of this note is to point out that the Ionescu Tulcea and Marinescu theorem can be reinforced, using a Nussbaum formula for the essential spectral radius of an operator. In this stronger version, this theorem is suitable for the spectral analysis of Lipschitzian, positive, not necessarily Markovian kernels, Ruelle theorem follows. As an application to probability theory, a large deviation theorem is proved.

MSC:

[60J10](#) Markov chains (discrete-time Markov processes on discrete state spaces)
[28D99](#) Measure-theoretic ergodic theory
[60F10](#) Large deviations

Cited in **4** Reviews
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Keywords:

essential spectral radius of an operator; Ruelle theorem; large deviation theorem

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