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(Submitted on 1 Jul 2011) Using ergodic theory, in this paper we present a Gel'fand-type spectral radius formula which states that the joint spectral radius is equal to the generalized spectral radius for a matrix multiplicative semigroup \$\bS^+\$ restricted to a subset that need not carry the algebraic structure of \$\bS^+\$. This generalizes the Berger-Wang formula. Using it as a tool, we study the absolute exponential stability of a linear switched system driven by a compact subshift of the one-sided Markov shift associated to \$\bS\$.		cs cs.SY math math.DS math.RA
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Comments:16 pages; to appear in Linear Algebra and its ApplicationsSubjects: <b>Optimization and Control (math.OC)</b> ; Systems and Control (cs.SY); Systems (math.DS); Rings and Algebras (math.RA)	Dynamical	Bookmark(what is this?)
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## Submission history

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