A multiplicative ergodic theorem for von Neumann algebra valued cocycles. (English) 

Summary: The classical Multiplicative Ergodic Theorem of Oseledets is generalized here to cocycles taking values in a semi-finite von Neumann algebra. This allows for a continuous Lyapunov distribution.

MSC:
46L10 General theory of von Neumann algebras
47A35 Ergodic theory of linear operators
37A20 Algebraic ergodic theory, cocycles, orbit equivalence, ergodic equivalence relations

Keywords: 
multiplicative ergodic theorem; cocycles; semi-finite von Neumann algebra
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