

ERGODIC PROPERTIES OF COCYCLES OVER FLOWS WITH BOWEN MEASURES

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We consider an ergodic non-uniformly hyperbolic system with a measure obtained from Bowen's construction. Examples are hyperbolic flows and the Teichmueller flow. We describe properties of bounded cocycles over such a flow relating the restriction of the cocycle to periodic orbits to global properties (for example, Lyapunov exponents) that resemble properties familiar for random walks and give some applications to Teichmueller dynamics. If time permits, I will give a short outlook on very recent work that relate these results to amenable actions.